THE CHEMIST AND DRUGGIST

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AS AN OFFICIAL JOURNAL

THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—PHARMACEUTICAL SOCIETY OF IRELAND, SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION, MIDLAND PHARMACEUTICAL ASSOCIATION OF NEW ZEALAND, CENTRAL ASSOCIATION OF NEW ZEALAND, OTAGO PHARMACEUTICAL ASSOCIATION, PHARMACEUTICAL SOCIETY OF QUEENSLAND, PHARMACEUTICAL SOCIETY OF SOUTH AUSTRALIA, PHARMACEUTICAL SOCIETY OF WESTERN AUSTRALIA, and TASMANIAN PHARMACEUTICAL SOCIETY.

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TO ADVERTISERS.

WE are desired by our publisher to remind advertisers that the summer number of THE CHEMIST AND DRUGGIST will be issued in the week ending Saturday, July 28. The number will be produced in bright and original style, the illuminated cover being a fresh design. The publisher is now booking orders for the insertion of circulars and price-lists in the issue. This will be the last occasion on which we can accept such insets this year, and this early notice does not give too much time for advertisers to put their ideas into shape. Terms for the insertion of circulars, and particulars as to the size, &c., they should be printed, can be obtained from the publisher on application.

COVERS FOR THE *C. & D.*

We supply cloth covers for keeping the weekly numbers of THE CHEMIST AND DRUGGIST handy. A cover holds three months' numbers. We use them regularly and find them most useful. So do hundreds of our subscribers to whom we have supplied them. Price, 1*s.* each. One, by post, for 1*s.* 3*d.*; two for 2*s.* 4½*d.* We do *not* send them for enclosure.

Summary.

WE announce the result of the May post-card competition, and give a subject for another (p. 757).

THE Medical Council have removed from the Medical Register the names of a number of medical practitioners for "covering" or advertising. One is a woman (page 755).

THE patent for a particular kind of chlorodyne, taken out by Messrs. Kay, of Stockport, has been revoked by a Chancery Court at the instance of the Pharmaceutical Society (p. 763).

PROFESSOR BEDSON, of Newcastle-on-Tyne, has proved that the acid of the gastric juice dissolves lead carbonate and lead sulphate, and that the consequent absorption of the fluid is the cause of lead-poisoning (p. 758).

TWO New York analysts have communicated a paper to the Society of Chemical Industry on the analysis of lard. They find that phospho-molybdic acid is the best test for cotton-seed oil: it gives a blue colour (p. 758).

THE Registrar-General's report for 1893 is commented upon, and we have compiled a table showing the numbers of deaths from poisons (page 759). Carbolic-acid poisoning is shown to be steadily increasing in frequency (page 770).

IN consequence of the refusal of the Royal College of Surgeons in Ireland to compel candidates for L. D. S. to show certificates of instruction by registered dental practitioners, the Medical Council have resolved to ask the Privy Council not to recognise the Irish licence (page 755).

AN extended comparison of Mr. Martindale's analysis of prescriptions and our own shows that during the past eight years comparatively few of the more common medicines have altered in popularity. The comparison brings into relief those which have become popular, and *vice versâ* (page 770).

THE Exeter watchmaker, who was sued by the Pharmaceutical Society for keeping open shop for the sale of poisons, but who, before the Exeter County Court Judge, successfully argued that, though he sold a poison, he did not keep open shop for doing so, has met with a reverse judgment in the High Court, where the appeal of the Pharmaceutical Society has been allowed (p. 762).

DR. ATTFIELD'S report on the British Pharmacopœia has been presented to the Medical Council. The reporter proposes to omit directions for making chemicals generally, to introduce methylated ether, and to recognise alternately metric weights and measures in formulæ. We comment on these matters on page 768. A new table of atomic weights is also suggested (page 759).

TWO curious cases under the Indecent Advertisements Act are reported. The exhibition of gonorrhœa-bags with some descriptive wording was the subject of prosecution in one case, and in the other a handbill recommending some quassia drinking-cups as a remedy for "nervous debility" subjected the vendor to a night in gaol. Both defendants were discharged with cautions (p. 763).

A GROCER has been fined, under the Sale of Food and Drugs Act, for selling compound licorice-powder containing no sulphur. It was shown, for the defence, that the article was cheaper if made with than without sulphur, and that many customers objected to the sulphur. Another prosecution under the same Act at Glasgow relates to the use of paraffin-wax in chocolate cigars (p. 763).

IN the Queen's Bench Division an appeal has been heard in the case of "Smith *v.* Mason & Co." The question involved was the liability of Gregory's powder and homœopathic medicines under certain conditions to stamp duties. The Druham Magistrates had held that the medicines in question came under the exemptions in the Medicine-stamp Act of 1812. Their Lordships decided that the Magistrates ought not to have refused to convict, and sent back the case to them with an intimation to that effect (p. 764).

English News.

The Editor is obliged to correspondents who send local newspers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Carbolic Poisonings.

Mrs. Elizabeth Hessell, of 63 Oak Road. Leeds, was distressed and weakened by watching at the bedside of her boy, aged 11, who had been suffering from spinal disease. Robert Hessell, the husband, a gasworks labourer, left his wife soon after 8 o'clock on Tuesday morning last week to go to work, and when he returned at midday, the house was fastened up. He forced an entrance and found his wife lying dead on the hearthrug, evidently poisoned by carbolic acid, the bottle being on the kitchen table. Dr. Kershaw said that carbolic acid had caused death. The coroner's jury returned a verdict of suicide whilst temporarily insane, and expressed their sympathy with Hessell in his bereavement.

Francis Thomas Adie (23), of Walsingham Street, Walsall, was found dead in that street on Sunday morning last. Deceased and his wife had some words over his irregularity of work, and he said that he should go to Nottingham and get work there. His wife saw no more of him until he was taken home on the Sunday morning dead. Dr. J. Scott Wilson stated that death was due to poisoning with carbolic acid.

A Chemist Invents a Cycling-saddle.

Mr. Charles Le Sueur, a Jersey chemist, contributed an article, entitled "Death in the Saddle," last January to *Cycling*, describing the dangers from the use of the ordinary peaked saddle. Last week's issue of the same paper contains a second contribution, "Studies from a Physiological Saddle," which is said to be "Told by the Skeleton." It appears that Mr. Le Sueur has invented and patented an improved cycling-saddle, which is being manufactured by a Coventry firm, and will shortly be placed on the market.

Supplying Drugs to Unions.

At the last meeting of the Holywell Board of Guardians a list of drugs required for the workhouse was submitted by Dr. Parry, who recommended that they should be obtained from a Leicester firm. One member said they would cost about 20*l.*, and he proposed that they advertise for tenders. Another suggested they should apply for prices to three wholesale houses. Another said they should do as was done at the Flintshire Dispensary. They got drugs from the local chemists at wholesale prices, with 5 per cent. off for payment within three months. They were well served at the dispensary that way. Ultimately it was decided that the Clerk should advertise for tenders for the supply of the drugs required.

The Half-holiday.

The chemists of Broughton-in-Furness have decided to close their places of business each Thursday afternoon; those of Alford each Thursday at 2 P.M., instead of Wednesday, until September 27; those of Market Rasen each Thursday at 1 P.M., instead of at 2 P.M., as heretofore; and those of Woking each Wednesday at an early hour. At Newton Abbot the chemists have decided to close each Thursday at 2 P.M., at Redruth on Thursdays at 3 P.M., and at Torpoint each Wednesday at 4 P.M.

An Anti-vaccinator.

At Newport (Mon.) Petty Sessions, on Saturday, Mr. Harry Hoyes, dealer in drugs and patent medicines, Castle Road, Newport, was summoned for refusing to have his child vaccinated, and was fined 2*s.* 6*d.*, and 6*s.* 6*d.* costs.

A Furious Rider.

At the Leicester Town Hall, on Thursday last, Percy Thornton, a chemist's assistant, of Abingdon Road, Leicester, was charged with riding a bicycle furiously on the London Road, Leicester, on May 7. The evidence of a police-constable was to the effect that he saw the defendant riding a bicycle on the day in question at the rate of twelve miles an hour. The Bench inflicted a fine of 10*s.*, or seven days.

Sheep in a Chemist's Shop.

Five sheep walked into Mr. Seed's chemist's shop, at Leyton, on Monday, while several customers were there, and tried to force their way behind the dispensing-counter. After a little jumping about one of them was caught and ejected, and the others quietly followed.

The Dartford Cottage Hospital.

The Countess Stanhope, wife of the Lord Lieutenant of the county of Kent, will, on July 4 next, preside at the opening of the Cottage Hospital at Dartford, which is being erected mainly through the efforts of Mr. S. M. Burroughs.

An Overdose of Cough-mixture.

On Monday, Mr. Badcock, Deputy-Coroner, held an inquest at the Darlington Hospital on the body of a child named Thomas William Alderson, who died at the hospital on Sunday morning. The mother of the child said the boy was suffering from a cold, and on Wednesday she got some mixture from Mr. Wilson, chemist. On the following Friday she got a fresh supply of the same mixture, and gave him a teaspoonful on Friday night. He seemed all right after that. On Saturday morning she sent deceased upstairs for the bottle, and he took a dose himself. He appeared to have taken four or five teaspoonfuls, judging by the quantity left in the bottle. He went out to play after taking the medicine. About a quarter-past 11 he came in and seemed drowsy, and she sent him to bed. About 2 o'clock she noticed something strange in his appearance, and she sent for Dr. Eastwood, who looked at the child and said he was dying. Mr. John Wilson stated that he supplied the mixture. There was $\frac{1}{20}$ gr. of morphia in each drachm. The other ingredients were quite simple. The label said the dose was from a half-teaspoonful to a teaspoonful. A teaspoonful would be quite harmless. It was pleasant to take, and a child might be fond of it. He judged from the quantity the child was said to have taken that he got about $\frac{1}{6}$ gr., or a little more than the non-poisonous adult dose. He always asked whether the mixture was for a child, and the age of a child, and then explained that to be taken occasionally meant night and morning, or, if the cough was a very violent one, it might be given three times a day with perfect safety. In reply to a juror, who remarked that the child himself came for the medicine, Mr. Wilson said that unfortunately in that neighbourhood a great many children were sent for things, but he exercised proper care. Mr. Coatsworth, from whom he took the business, sold the mixture for twenty years, and he had sold it for twelve, and this was the first time anything of this sort had occurred. The Coroner suggested that in future it would be better to add to the label, "This mixture contains a preparation of morphia, and is to be used with care." Mr. Wilson said he would do that. The jury found that death was due to accidental poisoning with morphia, and desired a recommendation to be made to all chemists that no mixture containing morphia should be sold without a label setting forth the fact being attached to the bottle.

Mistaking the Bottles.

An inquest was held at Woolwich, on Monday, touching the death of Ethel Catherine Frederica Wilson, aged 28, of 34 Kashgar Road, Plumstead, wife of a warrant officer in the Indian Ordnance Department. The evidence showed that on Friday night deceased complained of a pain in the stomach, and got out of bed to get some peppermint, but in mistake took some cyanide of potassium, which was in a bottle of the same shape as that which contained the peppermint. She died in a few minutes. Dr. Holmes pointed out that cyanide of potassium could be easily obtained by photographers and others, and was often used for cleaning gold lace, for which purpose it had been obtained on this occasion. A verdict of accidental death was returned by the jury

Walter Edwin White, aged 3 months, son of William White, goods-guard, of Netherfield, Notts, died from poisoning on May 26, after the mother had given the child a dose of what she thought to be tincture of rhubarb, but which she afterwards discovered to be pure laudanum. A doctor

was sent for, and an emetic was administered, but the child died soon afterwards.

Dental Requirements.

The Education Committee of the Medical Council have had under consideration for some time the refusal of the Royal College of Surgeons in Ireland to insist that candidates for the dental licence should produce evidence that they have received instruction in mechanical dentistry during three years from a registered dental practitioner. The committee have come to the conclusion that the course of study prescribed by the College is not such as to secure the possession by persons obtaining its licence of the requisite knowledge and skill for the efficient practice of dentistry; and they have recommended the Council to represent this opinion to the Privy Council, and to request the Privy Council to make order that the certificates granted under their present regulations by the Royal College of Surgeons in Ireland shall not confer the right to be registered under the Dentists Act. The Medical Council have adopted the committee's recommendations, but it was stated in the course of discussion that the College is to give way, and thus avert disaster.

The Council at the same meeting repeated its warning to dentists that the issue of advertisements containing claims of superiority over other dentists, or unfair depreciation of them, "may easily be carried so far as to constitute infamous or disgraceful conduct in a professional respect." A very picturesque display of dentists' advertisements was made by Mr. Brudenell Carter, who had brought with him a portfolio collection.

Dispensing Difficulties.

At last week's meeting of the Plymouth, Devonport, Stonehouse, and District Chemists' Assistants' Association a paper, "Jottings from the Dispensing-counter," was read by Mr. F. A. Goodwin, which dealt chiefly with incompatibles. The discussion which ensued was entered into by most of those present, nearly all agreeing that the addition of mucilage to suspend such tinctures as sumbul, quininæ ammon., &c., was to be commended, as it suspends the active ingredient, and more evenly divides the dose.

Medical Practitioners Punished.

The members of the General Medical Council at the meeting held last week had before them a number of cases of "infamous conduct in a professional sense," and agreed to the removal of the following names from the medical register:—George Davidson, M.B., Glasgow, for "covering" an unqualified man named Mylan at 129 Carlisle Road, Sheffield; John Melvin Campbell, L.S.A., for lending his name to "The Progressive Remedy Institution" in Queensland; Mrs. Eliza F. M. Frickhart, M.D. (Zurich), L.R.C.P.I. for advertising in Victoria, Australia; Denis Collings, M.R.C.S., 9 Erskine Street, Liverpool, for "covering" Francis McConville, an unqualified practitioner in Liverpool; Neville Holland, L.S.A., M.R.C.S., 13 Sewardstone Road, Bethnal Green E., for "covering" an unqualified practitioner named Davies; Stephen Niblett, L.S.A., L.R.C.P.E., &c., for advertising complained of by Mr. W. H. Murray, of Adlington, Lancs; Alexander Nairne, L.R.C.P.E., for lending his name to H. I. Currie, a drink-cure, 237 George Street, Glasgow; and Robert Ingram Robertson, M.B., Edinburgh, for covering an unqualified practitioner, named Graves, at Penarth.

Irish News.

Is it Libellous?

The proprietor of a Belfast Apothecaries' Hall appends to an advertisement in a local paper that he keeps "Natural Mineral Waters *by the best makers* always in stock." The italics are ours.

The Chief Agricultural Analyst for Ireland.

The appointment of Professor T. E. Thorpe, B.Sc.(Vic.), Ph.D., F.R.S., Principal Chemist of the Government Laboratory, to be Chief Agricultural Analyst for Ireland, for the purposes of the Fertilisers and Feeding-stuffs Act, 1893, has been published in the *Dublin Gazette*.

Mr. Hayes's Speech.

The Dublin *Evening Telegraph* (Nationalist) quotes the report of Mr. Hayes's speech at the dinner of the Pharmaceutical Society of Great Britain from THE CHEMIST AND DRUGGIST, and comments on it as follows:—"It is not, it seems, the High Sheriff of Dublin alone who can be guilty of the bad taste of introducing controverted topics into after-dinner oratory before mixed assemblages. We give an extract elsewhere from a speech delivered by Mr. William Hayes, President of the Pharmaceutical Society of Ireland, at a dinner of the kindred English Society in London the other day, which fairly throws the High Sheriff's performance into the shade. The latter gentleman got his appointment because of politics; Mr. Hayes can put forward no such plea, and in so far he is the worse offender of the two. What makes his strong party references all the more inexcusable is the fact that he was preceded by a member of the Government (Sir Walter Foster), who had to respond to a toast—'The Houses of Parliament'—bristling with dangerous invitations to indulge in party references, and who yet contrived to say something appropriate to the case without for a second grating on the feelings of opponents. We know of nothing more unfair than for a man elected to the position of president of a non-political society by his professional brethren of different shades of politics using the opportunities that post confers upon him to offend many of his own brethren as well as of his hosts. We make this observation irrespective of the side it immediately applies to. We should condemn such proceedings as strongly in a Home-Ruler as in a Unionist like Mr. Hayes."

Scotch News.

Chemists' Outings.

Arrangements have now been completed by the Edinburgh District Chemists' Association for the trip to Norham Castle on Wednesday, June 13. The excursionists will proceed to Berwick by special saloon carriages, leaving the North-East platform of the Waverley Station at 9.10 A.M. At Berwick they will lunch in the Red Lion Hotel, and leave there by carriages for Norham Castle, returning by the English side of the Tweed. After dinner in the Red Lion and a stroll through Berwick, the party will leave for Edinburgh at 7.16. A very pleasant day is anticipated, and we are asked to state that chemists from any part of the country are cordially invited. Tickets—12*s.* 6*d.* single, 23*s.* double—may be obtained from Mr. Claude F. Henry, 1 Brandon Terrace, Edinburgh.

The Aberdeen and North of Scotland Society of Chemists and Druggists have decided to hold their annual picnic on Tuesday, June 26. The arrangements may be summed up as follows:—The party leaves Aberdeen by first train for Ballater, where coaches will be in waiting to convey them by the recently-made mountain drive from Balmoral to Alt-na-Guisach, and from thence along the valley of the Muick by Falls of Muick, &c., to Ballater, where dinner will be waiting. Aberdeen will be reached by the last train. Members of the trade on holiday will be welcomed as usual.

Edinburgh Chemists', Assistants', and Apprentices' Association.

The first botanical excursion of the season took place on the evening of Wednesday, May 23, to Craiglcith Quarry. Owing perhaps to the following day being a general holiday there was a small attendance. A large number of plants were gathered, *Sherardia arvensis* being the only one not found on previous visits to the same place. Most of the specimens were only partially in flower, and it was evident that another visit a few weeks later would be amply rewarded. The excursion was conducted by Mr. W. B. Cowie.

French Pharmaceutical News.

(From our Paris Correspondent.)

Dr. Brown-Séquard's Successor.—There appears to be a good deal of competition for the seat at the Paris Academy of Sciences, rendered vacant by the death of Dr. Brown-Séquard. Seven gentlemen, most of whom are already professors, have entered. Dr. Arsonval and M. François Franck, both of whom are attached to the College of France, seem to have the best chance of success.

Students in France.—It appears from the Budget report for 1894 that the total number of students attending the various Faculties throughout the country at the beginning of 1893 was 23,397. Of these 6,470 are students of medicine—3,634 in the Paris schools and 2,836 in the provincial. Science claims 1,866 youthful votaries, of whom 1,267 attend provincial schools. Pure pharmacy is credited with 2,013, of whom 1,097 are in Paris and 916 in the provinces; while there are also in provincial schools 1,749 students of medicine and pharmacy engaged in the earlier portions of the curricula.

A Banquet and Ball.—On Saturday evening, May 26, a banquet was held at the Vidrequin Restaurant, Paris to celebrate the 160th anniversary of Mesmer's birth, and the first of the foundation of the syndicate of magnetisers, masseurs, medium healers, &c., representing the grouping of "all those who treat patients without medicaments." Forty of these pronounced opponents of pharmacy sat down to dinner, but, to the restaurant-keeper's dismay, they ate food enough for a hundred ordinary persons. M. Houssay (l'Abbé Julio), President of the Association, occupied the place of honour. A magnetism *séance* and a ball terminated the evening, the guests separating at about 4 A.M.

The Tariff on English Medicines.—In a letter published in last Monday's *Galignani's Messenger*, Messrs. Burroughs, Wellcome & Co. state that for some unexplained reason the Customs-duties on their pharmaceutical preparations are levied upon their retail prices, which is a different basis for fixing Customs-duties than is usually adopted by foreign countries. The fact that the body which decides the imposts is the College of Pharmacy of Paris, composed of representative pharmacists, leads one to suppose that this inconsistent and unfair treatment of levying duties upon retail prices is determined with the deliberate intention of keeping out goods prepared by English manufacturing chemists, so that French manufacturers may obtain fancy prices for their own goods, and exclude legitimate competition.

Explosive Therapeutics.—A learned professor at one of the Paris hospitals, who has an occasional tendency to harmless levity, lectured to his pupils a few days ago on the subject of the dangers of explosive therapeutics. He referred especially to those pharmaceutical mixtures which have, he remarked, a "true character of anarchy," and are sometimes prescribed by inexperienced or careless practitioners. He quoted one case that had come under his notice of a liniment for sciatica, composed of turpentine and tincture of iodine, the result of which was naturally a surprise. The professor quoted many other examples, including the tooth-powder that blew up the pharmacist's mortar instead of the client's front teeth, and terminating his lesson by recommending "simple remedies as the best."

Brandy as a Medicine and Tonic.—Writing on the subject of natural brandy from the point of view of therapeutics, M. A. Manceau insists upon its excellence as a tonic and as a valuable therapeutic agent in a great number of maladies. After admitting that everything, whether alcohol or strychnine, if taken in excess, will be fatal, he says:—"If the Society of Therapeutics has thought it advisable to pass a vote in support of alcohol, and if this vote has a favourable influence on the adoption of alcohol by the Codex in place of brandy, which is to say cognac, in the Todd potion, for example, and in all medical prescriptions where the use of this precious therapeutical agent may figure in future, one must not ask the doctors and pharmacists of the region where brandy is made to conform to this new reading of the Codex. They would never consent to it, because they consider that old brandy, with from ten to fifty years of cellar, is a more efficacious and agreeable remedy for a patient than the liquid called alcohol." He thinks it would be a mistake to attempt to officially impose the use of a product under such circumstances, and considers that the inspectors of pharmacy would quickly come to the same conclusion.

Foreign and Colonial News.

Caustic-soda Trade-mark.—Amongst the trade-marks registered at Washington on May 15 is one by the Northumbrian Chemical Company (Limited), Newcastle-on-Tyne. It is the representation of a lion statant.

Brandreth (Limited).—The manufacturers of Alcock's plasters and Brandreth's pills have, under the title of The Brandreth Company of Sing Sing, been incorporated, with a capital of $25,000. The company proposes to manufacture and sell patent medicines. Its directors are John Brandreth, Ralph Brandreth, and W. B. Stewart, of Sing Sing, N.Y.

Packet Tea in India.—The associations for supplying small packets of tea to the native community in British India have not met with much success. The native, in spite of his holy horror of the dregs of a Britisher's drink of water, is not averse to the dregs of his drink of tea, and, as a rule, he is quite satisfied with the second-hand tea-leaves that are sold in the bazaar.

Strike in a German Chemical-factory.—The whole of the seven hundred workpeople employed at Kuhnheim's chemical-factory in Niederschönweide, near Berlin, struck work the other day. They demanded higher wages and suitable provision for sanitary purposes and washing, including baths and hot-water apparatus. Their demands, with the exception of that for increased wages, were conceded; but the strike continues, although it is stated that a portion of the strikers have resumed work.

Chemists and Doctors in South Africa.—At a meeting of the chemists of Kimberley and Beaconsfield, South Africa, held on April 25, the following resolution was unanimously adopted:—"That the Colonial Pharmacy Board be asked to oppose the granting of chemists' licences to doctors, and that this meeting strongly protests against the present Act being amended so as to allow doctors or others to obtain chemists' licences without first complying with the requirements of the Medical and Pharmacy Act No. 34 of 1891."

Compulsory Use of Poison-bottles.—The New York Legislature proposes to make the use of poison-bottles compulsory. The Bill practically consists of one clause, viz.:—"No person, firm, or corporation shall, after October 1, 1894, either sell or give away, or cause to be sold or given away, any poison or poisonous substance in liquid form except in fluted bottles labelled in the manner heretofore provided by the laws of the State. Each person or corporation violating any of the provisions of this Act will be guilty of a misdemeanour." It is said that there is little hope of the Bill passing into law.

Mr. S. W. Fairchild Entertained.—On Thursday, May 10, Mr. S. W. Fairchild, of Fairchild Brothers & Foster, New York, President of the New York College of Pharmacy, was entertained to dinner at Delmonico's by his colleagues of the College. In the course of the evening Mr. Fairchild's health was toasted, and several gentlemen spoke of the service he had done for the College. Mr. Alfred Hy. Mason, during a short speech, said he had watched with interest the progress of pharmaceutical education in the United States, and was convinced that "our friends in Bloomsbury Square would have to look to their laurels in keeping pace with the progress of the day." What did Mr. Mason mean?

The Sulphur Industry of Japan.—Sulphur, called in Japanese "iyo" or "yuwo," is a product of considerable importance in the trade of Japan. Most of it is formed by decomposition of the sulphuretted hydrogen of the very numerous *solfataras*, occurring in the active and extinct volcanoes of the country. The export trade in this article

has grown rapidly since the opening of the country to foreign commerce. In the year 1868, the earliest date for which reliable Customs statistics are available, 131 tons, valued at 1,350*l.*, were exported. Recent returns show the following figures:—1890, 20,724 tons, valued at 43,330*l.*; 1891, 21,108 tons, valued at 47,470*l.*; and in 1892, 14,589 tons, valued at 41,560*l.* In February, 1893, there were eighty-four mines in operation, of which only thirteen produced annually more than 100 tons each.

INDIAN DRUG-CONTRACTS.—The Lieutenant-Governor of Bengal has contracted with Messrs. Smith, Stanistreet & Co., of Calcutta, to make and supply spirituous preparations, tinctures, sweet spirit of nitre, and the like for a number of municipal hospitals and dispensaries, making the important concession of allowing them duty-free spirit for the manufacture of these preparations. This firm's extensive premises are being enlarged to meet these requirements.

DRUG-CULTURES IN CEYLON.—The report of the Peradeniya Botanic Gardens (Ceylon) for 1893, which has just been issued, contains the following references to the cultivation and attempted acclimatisation of drugs in the island of Ceylon:—*Nutmegs*: It is somewhat remarkable that there is no export on any commercial scale of this product, as there must be a very large number of trees in the country. The few old trees in Peradeniya are about seventy years old; they are a fine sort, and bear copiously nearly all the year round without any attention whatever. During the last ten years the garden authorities have supplied over 118,000 seeds from these trees to meet a pretty steady demand for cultivation on low-country estates. *Coca*: In addition to the large-leaved typical variety there is cultivated in the gardens the smaller-leaved form, which has been named var. *Novo-Granatense*, and a sample of which, prepared at Henaratgoda, has lately been sent to Kew, where it was found to contain 0·56 per cent. of crystallisable and 0·47 per cent. of uncrystallisable alkaloid. *Camphor*: A large quantity of seed of the camphor laurel (*Cinnamomum Camphora*) was obtained from Japan, but, as it travels badly, only a small proportion was raised. About 2,000 seedlings are now at Hakgala in Ceylon. This tree may flourish in the drier parts of the Ceylon hill-country. There is a very old tree of large size in Peradeniya, but it never flowers there.

VASELINE IN U.S.A.—In consequence of the legal proceedings instituted by the Chesebrough Manufacturing Company in the United States, New York druggists have been somewhat vexed, and at a recent meeting the following resolution was adopted:—"Inasmuch as the New York County Branch of the Interstate Retail Druggists' League does not admit that any of its members have substituted petrolatum for 'vaseline,' it is moved as the sense of this branch that further discussion regarding the advisability of endorsing the action of the Chesebrough Manufacturing Company in their attempts to protect their copyright be abandoned; and as a rider to this motion it is further resolved that the New York County Branch request the National body to communicate with the different State Pharmaceutical Associations and the American Pharmaceutical Association advising that petrolatum responding to the tests of purity of the U.S. Pharmacopœia be officially considered equal in every respect to the proprietary substance named 'vaseline,' and that the physicians and the pharmacists of the country be so notified through the journals published in their interests." A representative of the *American Druggist* took this resolution to Mr. Robert A. Chesebrough, who "scanned it carefully, and was visibly affected. 'This is what I might have expected,' he said 'For twenty years I have worked to perfect "Vaseline" so that physicians might be placed in possession of a medicinal ointment-base of undoubted purity; but the druggists of the country seem to have consistently opposed and interfered with my efforts. It only needed this to give me a foretaste of the treatment I may expect to receive from druggists.' He slapped the paper viciously with the back of his hand, and threw it angrily from him." From later information we gather that the Chesebrough Company have decided to "abandon the methods which have given rise to complaint."

CUSTOMER: "Have you any spongia usta?"

Sarcastic pharmacist: "No; all the sponges we usta have are sold."

POSTCARD COMPETITIONS.

OUR May competition was a forecast of the election of the Council of the Pharmaceutical Society. The prize was promised to the competitor who should place the greatest number of the sixteen candidates in the positions which should be assigned to them by the actual poll. More than one-fourth of our competitors failed to score a single place; and just about another fourth only succeeded in crediting themselves with one each. The unexpected success of the Scotch candidates was a troublesome feature for prophets, as it upset the arrangement of the names generally. Among the hundreds of cards sent in to us only three foretold that Mr. Storrar would appear at the top. The greatest number of places scored in our competition is six, and this is only reached once, by Mr. J. W. Taplin, chemist, Harlesden, N.W., to whom therefore the guinea is awarded. The post-mark on Mr. Taplin's card is dated May 11, 1894.

JUNE COMPETITION.

Correspondents occasionally send us suggestions for these postcard competitions, and no doubt a good idea often occurs to many readers. We should like to avail ourselves of the universal wisdom, and we therefore this month offer the usual prize of one guinea for what shall be in our opinion

The Best Subject

for a competition which shall be proposed to us on a postcard. We shall give the guinea in any case, whether we get a topic we can utilise or not; and if we get a fair assortment of ideas we will give two or three of half-guineas besides. But beyond this it must be stipulated that we shall have the right to make use of any other suggestions that may be sent in, as and how and when we think proper, without paying for them.

The proposal should be set forth in a clear and succinct manner, and competitors must bear in mind that it should be so framed as to render the task of award possible. Answers, on postcards only, will be received until June 30, and all subscribers, their families, or their employés are invited to compete.

THE MIDLAND PHARMACEUTICAL ASSOCIATION.

THE report of this Association which has just been issued records the transactions at the members' and Council meetings held during the winter, all of which have been reported from time to time. The heroic resolution of the Council in regard to company-trading appears to have been lost sight of. It is as follows:—

> That in view of the unsatisfactory method in which companies are formed for the purpose of carrying on the business of a chemist and druggist, this Council is of opinion that steps should be taken to compel members of such companies to be qualified according to law, and, further, that any registered chemist and druggist lending his qualification for the purpose of "covering" any unqualified person or persons should be struck off the register."

The rest of the report is in a minor key. The Educational Committee "has not been able to report any definite scheme for the education of the younger members at present," but hopes to make arrangements later on.

The Recreation Section has a balance in hand of 1*l.* 3*s.*; but so little interest was shown at a preliminary meeting recently held that it has been decided not to engage any special ground for this season.

The annual ball was very enjoyable, but resulted in a deficit of 10*l.* 13*s.*

On the other hand, calls on the Benevolent Fund have been very small, and the library has been freely used, but new books are wanted.

SOCIETY OF CHEMICAL INDUSTRY.

London Section.

At the meeting on Monday evening, May 21, Mr. Gowland read a paper dealing with

COPPER-REFINING IN JAPAN.

The paper was mainly occupied with a description of the material known as shiromé, a metallurgical by-product obtained in the process of smelting copper, and largely used in the production of the magnificent bronzes for which the Japanese are famed.

In Japan the refining of copper is conducted in two operations. First, the ore is broken up and melted, and if it does not contain lead a sufficiency of that metal is added to the molten copper. The mixture is stirred with a tool having a broad surface of iron, to which the copper clings, and the greater part of the copper, with relatively little lead, is thus removed from the crucible. The copper thus obtained is next placed in a "liquation" furnace fitted with a tuyere—a charge of 160 lbs. metal with 40 lbs. charcoal—a gentle heat renders the mixture pasty, and the puddler, squatted in front of the hearth, gradually humours and squeezes away from the copper the more readily fusible lead which is still present. This lead carries with it any bismuth and silver that the copper ore contained. The blast is now increased and the copper protrudes from the furnace as the lead had done, the cake or crust of shiromé forming the margin of the copper plate. Shiromé is an arseno-antimonide of lead and copper. Practically the whole of the arsenic, antimony, lead, bismuth, and silver, are removed from the copper by this process; the resulting copper assays over 99 per cent.

In the discussion which ensued it transpired that a similar process may have been followed in England more than a thousand years ago, for an examination of some Roman remains from the excavations at Silchester had furnished vessels which, upon analysis, were found to contain copper and lead.

The next paper read was by Mr. Guttmann, on

SMOKELESS POWDER.

There are three types of these smokeless powders—(1) those in which guncotton only is used; (2) those in which nitro-glycerine is used in connection with guncotton; (3) those which contain nitro-cellulose in connection with a nitro-derivative of some aromatic hydrocarbon. The guncotton, or sometimes nitro-cellulose from wood, is kneaded with a solvent in much the same way as a pill-mass or dough is made, and the plastic mass is then either piped to form lengths of cord, or it may be converted into grains by placing it in hot water and blowing in steam.

There is no danger of explosion in the kneading process when once the solvent has been introduced. The operation may take from three to ten hours, and the product is translucent and soft like indiarubber.

In some cases the dough is rolled out into flat sheets; several of these are then rolled together, forming a thick homogeneous mass, which may be cut into minute cubes.

The solvents employed are alcohol, ether—a mixture of the two—and acetone. The cost of the solvents is an important factor, especially in this country, and Mr. Guttmann indicated that there is an opening for a process that should yield cheap acetone, and also for one that would enable the solvent to be recovered, which cannot at present be effected economically.

The colours of smokeless powders are dirty grey, yellow, or brown, but they may be made silver grey or black by polishing with blacklead.

The marked difference in the colour of the products of combustion from ordinary black powder and those from smokeless powders were clearly shown by burning small portions of the various powders on a tray, and throwing shadows of their products of combustion on a lantern-screen. Numerous samples were exhibited.

There was a long discussion, mainly on technical points.

Newcastle Section.

At the meeting on Thursday evening, May 24, Mr. Alfred Allhusen in the chair, there was a discussion on the Patent Laws following a paper by Mr. J. R. Breckon on the subject.

Professor P. Philips Bedson, D.Sc., read the second paper, on

THE POISONOUS ACTION OF LEAD-COMPOUNDS.

This paper described the continuation of some researches which the author and Professor Oliver, of the Medical College, have made in regard to lead-poisoning among white-lead workers. With a view to finding how lead gets into the human system, portions of carbonate and sulphate of lead had each been subjected, in small bags, to the action of the gastric juice of a dog. The hydrochloric acid in the gastric juice was found to be the active solvent which attacked the lead; and, whilst the carbonate was more soluble than the sulphate of lead, in the ratio of 5 to 1, the latter was appreciably acted on. This fact Dr. Bedson mentioned as controverting a favourable testimonial given by a London doctor in recommendation of one of the newer white-lead processes, in which the white-lead manufactured is a sulphate, and not the older compound—$2PbCO_3 + Pb(OH)_2$.

A short discussion ensued. The next paper was by Mr. R. Grieg Smith, of the Durham College of Science, giving some measurements and results of the

MICROSCOPIC EXAMINATION OF COWS' MILK

from various parts of Northumberland. These milks, on churning, had shown peculiar behaviour, and their examination showed the fat-globules to be of abnormal size.

A paper by Dr. W. C. McKenzie, on "Nitrate of Soda in Egypt," was read in short summary. It appears from this that there are considerable deposits of nitre on the banks of the Nile, but the author doubts whether they can be worked and purified so as to pay, owing to the long distance of carting which would be entailed.

Nottingham Section.

At the meeting held at University College, Nottingham, on Wednesday, May 23, Mr. R. L. Whiteley, the hon. local secretary, read a paper by Messrs. H. Schweitzer and E. Lungwitz, of New York,

ON THE COMMERCIAL ANALYSIS OF LARD.

The authors went very fully into the matter of the adulterants usually found in lard—viz., cotton-seed oil, oleo-margarine, sunflower oil, &c.—and explained the relative value and sensitiveness of the tests commonly employed. They also described a test introduced by themselves depending on the action of phospho-molybdic acid, which gives no coloration with a solution of pure lard in chloroform or ether, but readily shows the presence of cotton-seed oil by the blue tint produced. A device for rapidly ascertaining the iodine number was also described. The lard is kept at a temperature of 45° C. for twenty-five minutes, when results are obtained virtually the same as by waiting fourteen hours at normal temperature. The authors also attach considerable value to the temperature of crystallisation. The temperature of warm lard in the process of cooling will remain constant for a short time somewhere between 24·5° and 26·5° C., after which it will rise about one degree. The presence of adulterants notably alters these figures. In conclusion the authors stated that by the application of the foregoing tests they could obtain the materials for a full report in one and a half hour.

Mr. Rimmington (Bradford) compared some of the figures given in the paper with results obtained by him with English lards. He had found that a sample of pure lard melting at 98° F. gave an iodine absorption of 49. This figure in a lard of his own rendering was 52. He had to confess that very different results were got by the same test from the same sample, and he thought there was still much to be done in this field of research.

Mr. A. H. Allen said the Society might congratulate itself on its international character. With the great experience of the subject that American chemists necessarily

had, they might expect that a paper on lard by them would contain something new, and he, at least, had not been disappointed. One could never touch this question of testing lard without being painfully conscious of how insufficient was our knowledge of the subject. It is a curious fact that whilst certain fats are indistinguishable chemically from one another, yet under the microscope there is a distinct difference. He considered the sulphuric-acid test of some value, but was astonished at the adherence of such a go-ahead nation as the Americans to such a reasonless and objectless instrument as the hydrometer of Beaumé to express the strength of the acid. No two makers made the instruments alike. It was so easy to give the specific gravity in the ordinary figures, or even in degrees Twaddell, which bear a simple relation to them, that it was surprising that a scale should be perpetuated which required reference to a book to know its exact meaning. And no two tables are alike. In regard to the iodine-absorption method described, he could not approve of any process being stopped, as it were, half-way. He would far rather wait fourteen hours, or even twenty-four, for the end of a reaction. No doubt the idea of reducing the time to twenty-five minutes was attractive, but where a minute more or less might vitiate the result he could place no confidence in the method.

Professor CLOWES, in the course of his remarks, said that the generally unsatisfactory nature of our present knowledge was well evidenced by a case in which a sample of lard had been divided into two parts, one portion of which was rejected by the public analyst, and the other passed by him as perfectly sound.

The CHAIRMAN, in summing up the discussion, mentioned that during a recent visit to the United States he saw a large exhibit in the shop-window of a "Pure Lard Company," so designated on the sign over the door, and having a notice that said, "This lard is guaranteed pure. It is warranted to contain absolutely no hog-products." (Laughter.)

ATOMIC WEIGHTS.

NAMES, SYMBOLS, AND ATOMIC WEIGHTS of the chief elements mentioned in the British Pharmacopœia; O = 16; H = 1·0025. Arranged by Dr. John Attfield, F.R.S., and proposed for adoption in the next B.P.

Name	Symbol	B.P. 1885	Proposed B.P.	By Experiment
Aluminium	Al	27	27	27·06 (1894, 27·00)
Antimony	Sb	120	120	119·95
Arsenium	As	75	75	75·05
Barium	Ba	137	137·4	137·09 (1894, 137·44)
Bismuth	Bi	209	209	208·96
Boron	B	11	11	10·96
Bromine	Br	80	80	79·96
Calcium	Ca	40	40	40·01
Carbon	C	12	12	12·00
Cerium	Ce	141	140	140·20
Chlorine	Cl	35·5	35·45	35·454
Chromium	Cr	52·5	52·1	52·12
Copper	Cu	63·4	63·4	63·38
Gold	Au	196·5	197	197·07
Hydrogen	H	1	1	1·0025
Iodine	I	127	126·85	126·85
Iron	Fe	56	56	56·01
Lead	Pb	207	207	206·95
Lithium	Li	7	7	7·02
Magnesium	Mg	24	24·3	24·33
Manganese	Mn	55	55	54·97
Mercury	Hg	200	200	200·20 (1894, 200·00)
Nitrogen	N	14	14	14·04
Oxygen	O	16	16	16·00
Phosphorus	P	31	31	31·02
Platinum	Pt	195	195	194·89
Potassium	K	39	39·1	39·12
Silver	Ag	108	107·9	107·93
Sodium	Na	23	23	23·05
Sulphur	S	32	32	32·06
Tin	Sn	118	119	119·05
Zinc	Zn	65	65·5	65·28

BEHIND THE TIMES.—A medical contemporary reports that a Madrid chemist has discovered a new salt of quinine—the sulpho-hydrochlorate. But that is a Parisian discovery, which is quite old now from the news point of view.

POISONINGS IN 1892.

THE following table has been compiled from the statistics of deaths by poison in England and Wales recorded by the Registrar-General in his report for 1892. The deaths of males and females are distinguished, as are those by accident or negligence from those by suicide:—

	Accident and Negligence			Suicide		
	M.	F.	Total	M.	F.	Total
Acetic acid	2	1	3	—	—	
Aconite	1	1	2	1	1	2
Alcohol	8	—	8	—	—	—
Ammonia	4	4	8	2	2	4
Anæsthetic (not stated)	3	1	4	—	—	—
Antimony	1	—	1	—	—	—
Arsenic	9	6	15	6	—	6
Arum-seeds	—	1	1		—	—
Barium chloride	—	1	1	—	—	—
Belladonna		4	4	—		—
Benzine	—	—	—	—	1	1
Bichromate of potash	—	—	—	1	—	1
Bitter aloes	—	1	1		—	—
Carbolic acid	19	14	33	30	43	73
Carbonic-acid gas	11	—	11		—	—
Carbonic oxide	1	—	1	1	1	2
Caustic potash	1	1	2	—	—	—
Chloral	7	2	9	2	1	3
Chlorodyne	2	3	5	2	3	5
Chloroform	30	16	46	2	1	3
Coal-gas	6	2	8		—	—
Copper	1	—	1	—	—	—
Cyanide of potassium	—	1	1	8	1	9
Drugs to procure abortion	—	1	1	—	—	—
Dynamite	—	—	—	1	—	1
Ether	2	1	3	—	—	—
Fish, poisonous	2	4	6	—	—	—
Fly-papers	—	—			1	1
Food, improper	1	1	2		—	—
Foul air	—	1	1			
Fumes of charcoal	3	—	3	1	—	1
,, of kiln	3	—	3		—	—
,, other poisonous	7	—	7	—	—	—
Fungus	2	3	5	—	—	—
Horse-chestnuts	—	1	1	—	—	—
Hydrochloric acid	10	2	12	8	3	11
Hydrofluoric acid	—	—	—	—	1	1
Iodine	1	1	2	—	—	—
Ipecacuanha	—	1	1	—	—	
Lead	103	23	126	—	1	1
Lime	1	—	1	—	—	—
Liniment	1	—	1	—	1	1
Mercury	1	—	1	3	1	4
Methylated spirit	—	—		—	1	1
Nitric acid	2	1	3	—	—	—
Opium, laudanum, morphia	49	46	95	36	18	54
Oxalic acid	1	1	2	7	5	12
Paraffin	2	—	2			—
Phosphorus	2	1	3	2	6	8
Prussic acid, and oil of almonds	1	—	1	27	1	28
Sewer-gas	1		1		—	—
Smoke	4	1	5	1	—	1
Soothing syrup, cordial, paregoric	1	3	4	—	—	—
Spirit of tar	1		1		—	—
Strychnia, nux vomica	3	3	6	4	11	15
Sulphate of zinc	—	—	—	1	—	1
Sulphuric acid	2	1	3	2	1	3
Sulphurous-acid gas	—	1	1		—	—
Tobacco	1		1		—	—
Turpentine	1	—	1		—	
Vermin-killer	—	3	3		3	3
Water hemlock	1	3	4		—	
Kind not stated	21	12	33	29	16	45

Besides the above, one murder by prussic acid and one by a kind not stated are recorded; and two deaths from poison are classified under manslaughter, prussic acid being employed in one case, and strychnine in the other.

LOUISVILLE drug-clerks tell about a medical student who purchased a tooth-brush, and tried to exchange it a few days afterward because the bristles were too stiff and hurt his gums. The druggist, who appeared to be a professor of ethics and sundries, refused to accommodate him.—*Western Druggist.* [Travellers tell that twenty years ago it was common to find chained tooth-brushes in American hotel lavatories for the use of visitors!]

TRADE-MARKS APPLIED FOR.

ANY person who has good grounds of objection to the registration of any of the following marks should *at once* communicate with Sir Reader Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(*From the "Trade Marks Journal," May* 16, 1894.)

"ENGLISH'S AMERICAN FLUID," device of man leading horse, and wording on label; for an external veterinary preparation. By English & Co., 48 Union Street, Borough, London. 179,014.

"OXIEN," and device of man with bull's head; for medicinal plasters. By the Gean Oxie Company, 20 Willow Street, Augusta, Maine, U.S.A. The essential particulars are the device and the word "Oxien" 178,742.

"PORTRAIT OF J. F. CANBY," and wording; for pills, cough-mixtures, medicated lotions, and embrocations for human use. By Canby & Co., Duke Street, Bolton. The essential particular is the portrait. 178,894.

"YE GODIVA BOUQUET," other wording, and device of Lady Godiva on horseback; for a perfume. By A. A. Bones, trading as T. Loveitt & Co., the Central Pharmacy, Broad Gate, Coventry. The essential particular is the device and word "Godiva." 179,497.

(*From the "Trade Marks Journal," May* 23, 1894.)

"SILVERWELL," device of well, and wording: for deodorisers, disinfectants, chemical preparations, &c. By Wm. Priestley & Co., Silverwell.

"MENTHOL PENCIL AND INHALER," wording and signature on label; for a preparation for headache, neuralgia, &c. By J. Wyeth & Brother, Washington Avenue, Philadelphia, U.S.A. The essential particular is the signature. 178,094.

"BROMO-SELTZER," other wording, and signature on label for a medicinal preparation for headache, &c. By the Emerson Drug Company, 311 West Fayette Street, Baltimore, U.S.A. The essential particular is the facsimile signature. 178,321.

"KELEETOL"; for chemical substances used in medicine and pharmacy. By the Keltie Products (Limited), 123 George Street, Edinburgh. 179,088.

"CITRATE OF MAGNESIA," device of bottle containing granules, and showing label with wording; for citrate of magnesia. By A. Bishop & Sons (Limited), 17 Speck's Fields, Mile End, London, E. 178,864.

"THE 'ROCKING-HORSE' BRAND," and device of child on rocking-horse; for chemical substances used in medicine and pharmacy. By C. E. Evason, 154 High Street, Stourbridge. 179,237.

"THE CHEMIST AND DRUGGIST," device of phœnix holding key in its mouth, and leaf design; for a newspaper. By Morgan Brothers, 42 Cannon Street, London. 177,775.

(*From the "Trade Marks Journal," May* 30, 1894.)

"KOCIDE," and device of javelin; for deodorisers and disinfectants. By Wesley North & Co., Clarence Road, Hunslet, Leeds. 179,471.

Device of fly, in coster dress, sitting in chair, smoking, also device of fly-catcher on line, &c.; for sticky fly-papers. By M. E. Keys, trading as Wm. Bleasdale & Co., 23 Collier Gate, York. The essential particular is the device. 179,549.

"NERVITA," device of church-towers and crowd of people, and wording; for a medicinal preparation, or "phosphor life balm." By F. Bird, 156 Spon Street, Coventry. The essential particular is the combination of devices. 179,276.

Patents.

The following applications for Patents have been registered at the Patent Office.

Acetic and Oxalic Acids.—23,682.—December 8, 1893.—Count H. P. Syberg.

Capsules of Ferrous Carbonate and Ferrous Phosphate.—681.—January 12, 1894.—F. W. Warrick.

Disinfectant.—147.—January 3, 1894.—C. G. Moor.

Disinfectant Soaps.—24,956.—December 28, 1893.—L. Hatschek.

Embrocation.—1,241.—January 19, 1894.—W. H. Simmons.

Feeding-cup.—23,142.—December 2, 1893.—E. Wadham.

Ferrous Salts.—22,931.—November 29, 1893.—F. W. Warrick.——1,287.—January 20, 1894.—F. W. Warrick. Pharmaceutical preparation of ferrous salts.

Filters.—24,411.—December 19, 1893.—W. Railton and R. Campbell.——175.—January 3, 1894.—R. Tochtermann.

Insect-powder Duster.—22,862.—November, 28, 1893.—D. O. Tuttle and L. Sanderson.

Magnesium-hydrate.—24,563.—December 21, 1893.—M. N. d'Andria.

Meat-extract.—1,170.—January 19, 1894.—R. F. Maclosky.

Medicinal Compound.—24,588.—December 21, 1893.—M. Knowles.

Medicine.—892.—January 15, 1894.—C. E. Hope.

Ointment.—550.—January 10, 1894.—E. Gregory.——1,291.—January, 20, 1894.—J. N. Francis.

Poison-bottles.—23,778.—December 9, 1893.—M. E. O'Brien.——609.—January 11, 1894.—C. Cockson.——830.—January 13, 1894.—D. C. M. Fitzmaurice.

Respirator.—23,279.—December 4, 1893.—R. L. Jeffreys.

Syringe.—24,706.—December 22, 1893.—E. G. Wetherbee.

The Poison-bottle.—329.—January 6, 1894.—J. Cochrane and F. G. Powell.

SPECIFICATIONS PUBLISHED.

Copies of the following may be obtained from the Patent Office, by post, on application by card obtainable at any post office for 8d.

1892.

18,089. Barlow. Bottles for medicines, &c.
21,539. Golby. Tooth-brush.
22,442. Imray. Peptones.
22,523. Gossage & Williamson. Bicarbonate of soda, &c.
22,602. Dempster. Sulphate of ammonia, &c.
22,714. Marquart. Boric acid and borax.
22,814. Stone. Syringes.
22,819. Placet & Bonnet. Chromic acid, &c.
23,342. Strawson & Fream. Sulphate of copper.
23,733. Parker. Chlorine and alkali.
23,830. Delhotel & Moride. Filters.
23,849. Hartnett. Inhaler.

1893.

92. Spence & others. Salts of ammonia.
509. De Pass. Seltzogenes, &c.
1,214. Muspratt and others. Bleaching-powder.
1,335. Firby. Remedy for erysipelas, &c.
1,448. Candy. Filters.

2,476. Levenstein. Concentrating sulphuric-acid.
2,884. Webster & Moore. Pharmaceutical preparations.
3,182. Abel. Amidoalkylsalicylic acid, &c.
3,735. De Lambilly. Formiate of ammonia, &c.
3,961. Fritsch. Salicylic-acid-ester of acetol.
4,001. Hemingway. Oxide of iron.
4,384. Bosch. Teething-pads for infants.
4,486. Clark. Fluid-meats.
4,487. Clark. Food preparations.
4,581. Finlay. Soap-tablets.
5,566. Blackie. Arsenic solutions.
6,960, 8,902. Prentice. Nitric acid.
8,196. Helbing. Emulsions.
9,042. Prentice. Sulphuric acid and sulphites.
10,096. De Pass. Metallic oxides and compounds.
12,626. Kohn. Cosmetic lotion.
13,722. Kellner. Ammonia, sodium, hydroxide, and chlorine.
15,513. Imray. Scent-dispersers.
15,821. Reeves. Feedwater filters, purifiers, &c.
15,831. Koch. Filters.
15,895. Hacker & Gilchrist. Sulphuric acid.
16,065. Crook. Inhaling volatile substances.
17,002. Marasse. Potassium salicylate and salicylic acid.
17,316. Ryall. Inhaler.
17,566. Ekenberg. Fat emulsion.
17,602. Falding. Sulphuric acid.
18,777. Krohne. Inhalers.
19,010. Sprick. Administering medicines.
20,006. Williams. Filters.
20,639. Kranse & Mayer. Separating cholesterin, &c., from wool-fat.

New Companies.

CIVIL SERVICE DENTAL COMPANY (LIMITED).—Capital 1,000*l.*, in 1*l.* shares. Objects: To make and deal in teeth and all goods, commodities, preparations, &c., in relation to teeth or dentistry, and to protect the interests of dentists and the profession of dentistry, &c. Mr. Lonis Samson is the sole managing director. Registered office, 150 Brompton Road, London.

ADAM WILLIAM ISON & CO. (LIMITED).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of wholesale and retail chemists and druggists, patent-medicine vendors, medical herbalists, tobacconists, grocers, drysalters, &c. The first subscribers (who take one share each, with two exceptions) are:—A. T. Nicholson, 55 Brighton Grove, Newcastle-on-Tyne, secretary, 498 shares; W. S. Nicholson, 82 New Bridge Street, Newcastle, chemist's assistant, 497 shares; Margaret Nicholson, widow; T. H. Baty, 15 Ridley Villas, Newcastle, coal merchant; G. R. Baty, 15 Ridley Villas, engineer; J. Sutherland, 70 Norman Terrace, Newcastle, assistant chemist; Hannah M. Sanderson, Newcastle, spinster. Registered without articles of association. Office, 1 King's Head Buildings, Darlington, Durham.

JOHN NICHOLSON & SONS (LIMITED).—Capital 120,000*l.*, in 100*l.* shares. Objects: To acquire the business carried on at Hunslet, Leeds, under the style of John Nicholson & Sons, and to carry on the business of chemical manufacturers and drysalters, and dealers in chemicals, drysaltery, oils, colours, varnishes, paints, &c. The first subscribers (who take one share each) are: J. C. Nicholson, Moorfield House, Leeds, chemical manufacturer; J Nicholson, Wheatfield Lodge, Leeds, chemical manufacturer; Mary A. Nicholson; Eliz. Nicholson; Jane A. Nicholson; John M. Nicholson; Wheatfield Lodge, chemical manufacturer; W. E. Nicholson, Moorfield House, chemical manufacturer. The first directors are J. C. Nicholson and Joseph Nicholson. Qualification, 10,000*l.*; qualification of ordinary directors, 500*l.* Remuneration to be determined by the company in general meeting.

WILLIAM GOSSAGE & SONS (LIMITED).—Capital, 426,000*l.* in 10*l.* shares. Objects: To carry on the manufacture of soap, candles, glycerine, alkali, explosives, drugs, dyes, paints, colours, &c. The first subscribers (who take one share each) are:—F. H. Gossage, Woolton, Liverpool, soap-maker; T. S. Timmis, Allerton, Liverpool, soap-maker; W. Wimwood Gossage, 13 Hargreaves Road, Liverpool, soap-maker; H. S. Timmis, Widnes, soap-maker; E. F. Gossage, 31 Marmion Road, Liverpool, soap-maker; R. Cooke, 6 Alexandra Drive, Liverpool, manager; A. Thorpe, Farnworth, Widnes, buyer; J. Smelts, 2 Cavendish Road, Blundellsands, manager. The departments of work and duties of the various managers are to be prescribed to F. H. Gossage, and T. S. Timmis, who shall decide all matters concerning the management of the business.

THE GLASGOW ACETIC ACID COMPANY (LIMITED).—Capital, 10,000*l.* in 1,000 shares of 10*l.* each. Objects: To take over and carry on the business of Lyness & Gibson, acetic acid manufacturers, 77 Canal Street, Glasgow. The following are the first subscribers, and they take one share each:—Sir John Neilson Cuthbertson, 29 Bath Street, Glasgow, chemical and produce broker; Thomas Henderson, 29 Bath Street, Glasgow, chemical and produce broker; W. B. Galbraith, 107 Buchanan Street, Glasgow, chartered accountant; Jas. M. Parker, 7 Montrose Street, Glasgow, merchant; Robt. C. Lyness, 77 Canal Street, Glasgow, acetic acid manufacturer; John Forrester, 9 Colebrook Terrace, Glasgow, warehouseman; and Alexander Knox, 221 West George Street, Glasgow, surveyor. The first directors are T. Henderson, T. Dunlop, W. B. Galbraith, A. Knox, R. C. Lyness, and W. McLeod; qualification, 100*l.* Registered office, 107 Buchanan Street, Glasgow.

E. WALLIS & CO. (LIMITED).—Capital, 1,000*l.*, in 1*l.* shares. Objects: To carry on business as agents for or manufacturers of chemical, mechanical, surgical, electrical, and scientific instruments and appliances, chemical engineers, &c. Registered without articles of association. Office, Ivy Chambers, 30 and 31 Newgate Street, E.C.

DIANA MANUFACTURING SYNDICATE (LIMITED).—Capital 4,500*l.*, in 1*l.* shares. Objects: To carry on businesss as manufacturers and vendors of Brunswick black, Berlin black, ink, metal-polish, kid-reviver, &c., drugs and patent medicines, and as wholesale and retail chemists and druggists, &c. The first subscribers (who take one share each) are:—J. Herbert, 20 Bucklersbury, E.C., lithographer; H. J. Smith, 2 Norfolk Street, E., accountant; H. Mobbs, 3 Elmas Road, N., stationer; W. Tees, Chalk Farm, clerk; G. Nash, 15 Blossom Street, E., warehouseman; A. H. Halls, 2 Gascoigne Place, E., clerk; E. Piercy, 11 Queen Victoria Street, E.C., clerk. Registered without articles of association.

MARRIAGE.

POSTLETHWAITE—FAULKNER.—On May 27, at St. Luke's Parish Church, Southampton, by the Rev. Montagu Powell, Vicar, Thomas Postlethwaite, pharmaceutical chemist, of Southsea, to Annie R. Faulkner, of Southampton.

DEATHS.

BENNETT.—On May 24, Mr. Robert Bennett, pharmaceutical chemist, Tunbridge Wells. Aged 68. The deceased gentleman had been in business in Tunbridge Wells for 40 years.

CATTLE.—On May 19, at Elvert Bridge, Durham, Mr. H. S. Cattle, chemist and druggist. Aged 48.

HELLIAR.—At London Road, Yeovil, Mr. Edwin Helliar, chemist and druggist. Deceased was for many years a member of the Town Council, and filled the office of Mayor on two successive occasions. He was also a Justice of the Peace for the Borough and a prominent Conservative.

WILSON.—On May 19, James Wilson, chemist and druggist, Turriff. Aged 22.

WOLFERSTAN.—On May 15, George D. Wolferstan, chemist and druggist, of Midhurst. Aged 52.

Legal Reports.

The Sale of Composition and the Medicine-stamp.

At the Bradford Borough Court on May 22, Thomas Edward Clarkson, chemist, of Girlington Road, Bradford, was summoned for selling a bottle of medicine which was not stamped as required by law. Mr. Alpe prosecuted on behalf of the Inland Revenue authorities. He said the defendant had sold a bottle of "composition" which, the label stated, was good for influenza, pains in the stomach, cold feet, circulation of the blood, &c. "As a stimulant in cold weather," the label stated, "it is far superior to brandy or any other intoxicating drink." (Laughter.) Mr. T. Jameson, an officer of the Inland Revenue, deposed to having purchased a bottle of the "composition" from the defendant. In answer to the Stipendiary Magistrate, Mr. Alpe stated that the Commissioners allowed a label such as "cough-mixture" to be unstamped, but nothing further. The defendant said he thought the label was a legal one. The "composition" was a mixture which was sold by nearly every chemist and druggist in England. Mr. Alpe said that each of the bottles sold by the defendant at 9*d.* each ought to bear a 1½*d.* stamp. The Inland Revenue authorities derived 150,000*l.* every year from this source of income. Last year Mr. Clarkson compromised with the authorities for a similar offence. The defendant stated that he had altered the label since then, and he had been under the impression that the altered form did not require a stamp. The Bench fined the defendant 2*l.* and 2*l.* 8*s.* costs.

Open Shop and the Sale of Poisons.

In the Queen's Bench Division of the High Court of Justice on May 25, Justices Cave and Wright, sitting as a Divisional Court, had before them the case of the Pharmaceutical Society *v.* Hornsey, on appeal against a decision of the Exeter County Court Judge.

Mr. Crump, Q C., and Mr. Grey appeared on behalf of the Pharmaceutical Society in support of the appeal, and Mr. Foote represented the respondent.

Mr. Crump said that in this case a summons was taken out against the respondent with the object of recovering penalties for an alleged offence under the Act regulating the sale of poisons. Hornsey was a watch and clock maker, carrying on business at Exeter, but he also prepared and sold a preparation known as "Hornsey's Devonshire Specific" which was supposed to be a cure for rheumatism and other kindred ailments. This preparation admittedly contained corrosive sublimate, a deadly poison, and the proceedings against the defendant were under the section of the Act dealing with the keeping of open shop for the sale of poisons. The County Court Judge found as a fact that the defendant did keep open shop, and that he did sell poison, but inasmuch as the open shop did not disclose externally the fact that a poison was sold within, he held that he did not keep open shop for the sale of poison. Such a defence as this was surely a very ingenious way of avoiding the intention of an Act of Parliament, for on the facts he did not conceive how there could possibly be an answer to the charge made against the defendant.

Mr. Justice Wright: What reason did the Judge give for his decision?

Mr. Crump: He said that there had been an error of procedure, and that had the defendant been charged with selling the poison he should have convicted. As, however, the specific was not advertised and was only supplied to those who took the trouble to enter the shop and ask for it, he held that this was not keeping open shop for the sale of poisons within the meaning of the Act. The Judge was quite of opinion that the poison in question was of a deadly character, and it was given in evidence that two small bottles of the preparation contained enough poison to kill thirty people. In his judgment his Honour said that the defendant was an old man 70 years of age, who for the last half-century had made up and sold this concoction known as "Hornsey's Devonshire Specific," which contained corrosive sublimate, a poison unlawful for anyone to sell who was not properly qualified under the Act. The defendant had, therefore, no right to sell the mixture, and if he had been sued for selling it, he should have had no alternative but to give a verdict for the plaintiff Society. It was contended on the defendant's behalf that however guilty he may have been of selling this poison, he did not keep open shop for its sale. The defendant undoubtedly kept open shop for the repair of clocks and watches, which latter he exposed in his windows as an intimation to the public of his trade, and as an invitation for them to enter and entrust him with the repair of their clocks and watches. If the offence had been keeping open shop for the repair of clocks and watches, undoubtedly he would have been guilty. (Laughter.) With regard, however, to the sale of the specific, there was nothing to show that he dealt in such an article. He made it up from an old family recipe, and it was only supplied to persons who applied for it. It was not advertised in any way whatever, and sitting as a judge, he was unable to come to the conclusion that the defendant kept open shop for the sale of poisons. In conclusion, the Judge said there had been an error of procedure, and that it would be open to the Society to take further proceedings. He (Mr. Crump) submitted that the view taken by the learned Judge was erroneous, for if his judgment were to stand it would be open to anyone to sell poisons with impunity simply by filling up the windows of a shop with articles of another description.

Mr. Foote, on the other side, said the section of the Act under which proceedings were taken was not directed against an unlawful sale, but against a person advertising or otherwise making known to the public that he was qualified to sell poisons when he was not.

Mr. Justice Wright: But surely the defendant kept open shop for the sale of poisons, although what he did was under the cloak of another business.

Mr. Foote said that the clock and watch making business was the defendant's real business, and the sale of this preparation was, so to speak, only incidental. The statute required, in order to make it an offence, that a person should keep open shop for the sale of poisons, and the Judge found as a fact that this had not been done in this case.

Mr. Justice Cave said he found that two penalties were asked for. Only one, so far as he could see, could be recovered, as there was only one offence, that of keeping open shop.

Mr. Crump agreed with that view of the case.

Mr. Justice Cave thought the matter one which was reasonably clear. The defendant kept a shop, and in that shop he retailed poisons, and anyone was at liberty to go in and ask for the poisons. He could not understand what was keeping open shop for the sale of poisons if that was not. The appeal would be allowed, and judgment entered for the plaintiff Society for 5*l.*, with costs here and below.

Mr. Justice Wright was of the same opinion.

Compound Liquorice-powder.

Mr. S. Pickup, grocer, Greenfield, was summoned at the County Petty Sessions at Saddleworth, on May 23, for selling compound liquorice-powder not of the nature, substance, and quality demanded. Mr. Joseph Bradbury, solicitor, defended. Inspector A. S. Bridge deposed that on March 29 he visited defendant's shop at Greenfield. He was attended to by Mr. Blackburn, defendant's son-in-law. He asked for 3 oz. of compound liquorice-powder. The article was divided into three parts, and that sent to the public analyst was stated in the certificate to be compounded substantially in accordance with the directions of the British Pharmacopœia, except that it was destitute of sulphur, which was ordered by the British Pharmacopœia to be in the proportion of 1 oz. in 12. Appended to the certificate was the observation, "The omission of sulphur from the preparation would materially affect its medicinal value." In reply to Mr. Bradbury, witness said the delay in bringing the case forward was caused by the analysis being more intricate than in ordinary cases of adulteration. He took other samples from the shop, and these were found genuine. Witness did not know there were two kinds of compound liquorice-powder, one with sulphur and one without. Mr. Blackburn did not tell him he had two sorts. Sulphur was the cheapest ingredient in the mixture.

For the defence, Mr. Bradbury contended that what the

defendant did was not an offence under the Act of Parliament. The Pharmacy Act permitted any person to keep a shop such as defendant had for retailing drugs, and he was not placed in a position similar to that of a chemist. Defendant purchased his drugs from a wholesale chemist with a warranty, and he sold them in exactly the same state as he received them. Defendant had two kinds of liquorice-powder, one with and one without sulphur. That which contained sulphur was practically unsaleable, and made children ill. If there had been any offence committed it was of so trivial a nature that the Bench would be justified in dismissing the case.

The Chairman: You cannot get beyond the analyst's certificate. If a man chooses to deal in chemicals, he ought to be in possession of special knowledge.

Mr. Blackburn was sworn, and said the drug was 50 per cent. cheaper if he bought it with sulphur in. The one without sulphur was the commercial article. People asked for it "without the sickly stuff," meaning the sulphur.

Mr. Bradbury contended that there was no proof that defendant had fraudently sold something that was not of the nature, substance, and quality demanded. In this case there was only one attribute of the article absent, and he contended that the certificate of the analyst was bad. The defendant had sold the inspector the powder demanded.

The Chairman said if defendant kept two kinds of powder it was his duty to ask the inspector which kind he required. Defendant would be fined 5*s.*, including costs.

REVOCATION OF KAY'S PATENT.

THE petition of the Pharmaceutical Society of Great Britain and Mr. Carteighe, pharmaceutical chemist, 180 New Bond Street, for the revocation of the Letters Patent No. 16,496 of 1892, granted to Thomas Kay, chemist, Stockport, George Arthur Shaw, and Kay Brothers (Limited), manufacturing chemists, came before Mr. Justice Stirling in the Chancery Division of the High Court on Tuesday.

Mr. Roger Wallace, counsel for the petitioners, said that the patent was for what was described as "a new and improved method of preparing a medical compound known as chlorodyne, whereby it is formed into a solution which does not separate into different parts. By this means we avoid the danger which exists in the administration of it without previous agitation. We thus provide for greater safety in the case of this medicine, and in order to fix the distinction between the two preparations we spell it thus—Klorodyne." His learned friend Mr. Lawson appeared for the respondents, and consented to an order being made for revocation of the patent and payment of the petitioners' costs.

Mr. Lawson said he now appeared for all the respondents. Since the petition was formerly before the Court he had had an opportunity of looking at the objections, and examined some of the articles said to be prior users; and although the respondents thought they had a good discovery, they now found that the prior user was in anticipation, and that it would be hopeless to contest the petition. But the suggestion that the patent was not *bonâ fide*, or was intended for the purpose of enabling poisonous mixtures to be sold by unlicensed persons, had no foundation. His clients honestly thought they had made a good discovery, but, unfortunately, that turned out not to be the case.

Mr. Wallace: I may say on behalf of the Pharmaceutical Society that as soon as the sale of chlorodyne was attacked by the Treasury, then the patent was taken out and chlorodyne was spelt with a "k."

Mr. Lawson: There is no evidence of that at all, and what I have said is *bonâ fide*.

His Lordship made an order in terms of the minutes agreed upon between the parties, revoking the patent, and giving the petitioners their costs.

PARAFFIN-WAX IN CONFECTIONS.

AT the Glasgow Sheriff Court, on May 30, before Sheriff Birnie, Messrs. Downie Brothers, confectioners, 46 Candleriggs, were charged at the instance of the sanitary authorities of the city with contravening the Food and Drugs Act, by selling, on February 12, chocolate cigars which were certified to contain 4 per cent. of paraffin-wax, which is extraneous to chocolate cigars. Sanitary-inspector Murray proved the purchase of the confections for 3*d.* A third of the purchase was analysed by Mr. Tatlock, the City Analyst, who certified that it contained 4 per cent. of paraffin-wax. He afterwards purchased chocolate cigars in other two shops at the same price, and these were certified by the analyst to be genuine. Paraffin-wax was sold to manufacturing confectioners at $1\frac{3}{4}$*d.* to $2\frac{1}{2}$*d.* per lb. Beeswax was sold at 2*s* to 2*s.* 6*d.* per lb.; raw ox-fat at 3*d.* to $3\frac{1}{2}$*d.* per lb.; rendered ox-fat at 4*d.* to $4\frac{1}{2}$*d.* per lb.; and cocoa-butter at 1*s.* 2*d.* to 1*s.* 4*d.* per lb.

Mr. Peter Fyfe, Chief Sanitary Inspector, stated that having received a complaint that these confections were adulterated, he instructed his officers to purchase samples. Ten samples were taken, and of eight analysed three were certified to contain paraffin-wax and five to be genuine. Four of these cigars, or a pennyworth, such as a child would purchase, contained $21\frac{3}{4}$ gr. of wax.

Cross-examined by Dr. Colquhoun (who appeared for the defendant): He did not know that paraffin-wax was used internally in bronchitis. It might be used as a medicine—so was arsenic. He had heard from a doctor of two persons having been injured by eating chocolate, vomiting and sickness following the eating of the sweets. No case of injury to the human frame through eating paraffin-wax had come under his notice. It was alleged that adulterated chewing gum, on which a prosecution had been taken about three years ago, had produced a great disturbance in children's stomachs.

Mr. Tatlock, City Analyst, said the paraffin-wax was perfectly insoluble, and if it accumulated in the body it must prove an irritant. At 98° F., the normal temperature of the human body, it was a plastic mass, like clay, but was adhesive and more inactive than clay. He saw no justification for using paraffin-wax round chocolate cigars. If a wax were needed, beeswax should be used. Paraffin-wax was much cheaper than beeswax.

By Dr. Colquhoun: He was not practically acquainted with the manufacture of confections. Paraffin-wax would have no effect on the human system if it passed through. It would depend on how it was chewed whether or not the wax would accumulate in the body. The melting-point of paraffin-wax was 122°, and that of beeswax 142° to 145°.

Dr. Clark, another of the City Analysts, corroborated in the main, and stated that he purchased samples of Cadbury's and Fry's chocolate cigars, and that analysis showed there was no paraffin.

Two chocolate-manufacturers were called to prove that they did not use paraffin-wax in such confections, and that it was not necessary.

For the defence, Peter Nimmo, manufacturing confectioner, said that chocolate-cream cigars were largely sold in the trade. The ingredients were chocolate butter, fat (if wished), and paraffin-wax. As long back as he could remember paraffin-wax had been largely used in the confectionery-trade in Glasgow. It was used for dissolving the chocolate, and with the wax less of the chocolate was required to cover the sugar. It also kept better. There was no attempt to defraud the public in putting paraffin-wax in the chocolate. He had paid as much as 9*d.* per lb. for paraffin-wax; it was not for cheapness it was used.

By Mr. Lindsay: He paid $4\frac{1}{2}$*d.* for paraffin-wax just now.

Dr. John Dougall, professor of materia medica in St. Mungo's College, said paraffin was passed through the bowels without being absorbed, and without doing any harm.

Cross-examined: Possibly $\frac{1}{2}$ lb. would be innocuous for an adult. For a child of 7 he thought 1 oz. would be innocuous.

I show you the quantity that is contained in a pennyworth of these cigars. Could a 7-year-old child take that for several days without being injured?—I think so.

Dr. Dougall, however, admitted that it was not desirable to have an inert body in the bowels.

The case was adjourned.

ALLEGED INDECENT ADVERTISEMENTS.

AT Bow Street, on Wednesday, May 30, C. J. Wilcox, of 29 Newcastle Street and 34A Holywell Street, appeared before Mr. Vaughan to summonses charging him with exhibiting in the window of each of his shops certain printed

matter of an indecent and obscene nature. Mr. Maynard appeared for the defendant. Detective-sergeant Ward said he watched the defendant's shop in consequence of complaints made to the Commissioner of Police, and saw exposed in the window of each establishment a box labelled "Gonorrhœa-bags." This, and other things stated on the label, constituted the alleged indecent advertisement. Mr. Maynard contended that no offence was committed, and mentioned that advertisements relating to the same thing were appearing in the leading medical journals. He argued that the Indecent Advertisement Act, under which these proceedings were taken, only applied to indecent advertisements affixed to any house, pillar, post, fence, tree, or any other thing whatsoever. Mr. Vaughan said it seemed to him that "any other thing whatsoever," applied to the box on which this advertisement was exposed, but on the defendant undertaking to expose the advertisements no more, he dismissed both summonses on payment of costs.

At Blackburn County Police Court on May 30, a weaver, named Hamilton, was charged in custody with a breach of the Indecent Advertisement Act, the evidence of Police-sergeant Charnley being to the effect that the defendant had been seen delivering handbills at Great Harwood setting forth the virtues of a "wonderful drinking-cup," which he vended, and which, it was alleged, had the effect of turning water poured into it into a tonic capable of curing "indigestion, biliousness, and nervous debility," The prosecution relied upon the words "nervous debility" as a breach of the statute, and defendant had been locked up all night on the charge. Mr. Read, who defended, admitted that a technical breach of the Act had been committed, but urged that it was done in pure ignorance, and that the "nervous debility" referred to did not necessarily imply debility from sexual diseases, which the Act was taken to apply to. The cup was made of the bitter quassia-wood, which the defendant had turned himself and hawked as a means of supplementing his income. He was a most respectable working man, and threw himself on the leniency of the Court. The handbills referred to were part of a stock which he got several years ago, with the first lot of cups he bought from a quack on the market-place. The Bench discharged the defendant with a caution.

Saving a Cargo of Sulphur.

In the City of London Court, on Wednesday, before Mr. Commissioner Kerr, the Elliott Steam-tug Company, of Gravesend, sought to recover 300*l.* for services rendered to Messrs. J. Robinson & Sons, of South Shields, in saving a cargo of sulphur from probable total loss.

The plaintiffs' case was that they were the owners of the steam-tug *Challenge*, and that in the early morning of February 22 the defendants' steamer *Camellia* was in Gravesend Reach. She was loaded with a cargo of sulphur worth 17,000*l.* As she was proceeding the propeller of the ship fouled a buoy in the river, so that the vessel became disabled. The cargo was in danger of being lost, and the plaintiffs' services to get the vessel clear were accepted. The plaintiffs contended that the aid they gave was meritorious, because, if the buoy had sprung up, as it might have done, the plaintiffs' tug, with the men in her, would have all gone to the bottom.

The defendants denied that, and said that there was scarcely any need to have had the plaintiffs' services at all. They had paid the sum of 50*l* into court as sufficient to recompense the plaintiffs for any help they might have given.

Mr. Commissioner Kerr said, having regard to the valuable service which the plaintiffs' men rendered, he would find for the plaintiffs for the sum of 150*l.* The costs of the action were also allowed.

Patent Medicines and the Stamp-duty.

In the Divisional Court of the Queen's Bench Division on Wednesday, before Mr. Justice Cave and Mr. Justice Collins, the case of Hartley Smith (Inland Revenue officer), appellant, and Mason & Co. (Limited), chemists, of Durham, South Shields, and elsewhere, respondents, came on for hearing. Mr. Danckwerts appeared for the appellant, and Mr. T. Willes Chitty for the respondents.

Mr. Danckwerts said that this was a special case stated by the Justices for the City of Durham for the purpose of obtaining the opinion of the Court upon questions of law. The respondents appeared before the Magistrates on February 1, 1894, to answer two informations for recovery of two penalties of 10*l.* each imposed by section 2 of the Medicine-stamp Act, 1812. The informations alleged that the respondents "did utter, vend, and expose for sale a packet containing a certain preparation and composition to be used and applied as a medicine and medicament for the prevention, cure, and relief of disorders and complaints incident to and affecting the human body, and liable to stamp-duty—to wit, Dr. Gregory's stomachic-powder and tincture of nux vomica." The informations were dismissed. It was proved that on September 29 the respondents sold to Thomas Jameson at their shop, 76 Sadler Street, Durham, one bottle of Gregory's stomachic-powder, and in a cylindrical cardboard box one bottle of tincture of nux vomica. It was further proved that previously to purchasing the medicines Jameson received from the company their cash price-list for 1893. The book contained on the cover: "Mason & Co.'s (Limited) cash price-list, 1893. Prescriptions dispensed by qualified chemists. Mason & Co. (Limited), The London Drug-stores. Central stores: King Street, South Shields; Green Street, High Shields; Saville Street, North Shields; Ormonde Street, Jarrow; Sadler Street, Durham." Page 10 of the book contained a notice, stating: "Dr. Gregory's stomachic-powder, composed of the finest Turkey rhubarb, calcined magnesia, Jamaica ginger; for acidity, flatulence, loss of appetite, and the symptoms attending on impaired digestion. Its properties are antacid and gently aperient. It is well adapted for gouty and dyspeptic invalids, and may be taken under any circumstances." The label affixed to and delivered with the bottle was as follows:—"Dr. Gregory's stomachic-powder. Prepared from the original recipe of the late Dr. Gregory, of Edinburgh. Composed of the finest Turkey rhubarb, calcined magnesia, and Jamaica ginger. The dose for an adult is one or two large teaspoonfuls, taken either at bedtime or early in the morning in a glassful of common or peppermint water." Page 33 was headed "Mason & Co's Patent-medicine List." In the first column the list of homœopathic medicines commenced, from which the following is an extract:—"Homœopathic medicines.—The following tinctures and pilules are kept in stock. They are prepared by duly qualified homœopathic chemists, and the utmost and most scrupulous care is taken in their manufacture. Uses of the principal medicines: Nux vomica—Derangements of the stomach, spasms, heartburn, constipation, piles." The bottle of tincture was enclosed in a cardboard case, in which was a handbill wrapped round the bottle and containing the following:—"Barker & Barker, manufacturers of homœopathic medicines, wholesale and retail, 26 High Holborn, London, W.C." The handbill also contained this: "Nux Vomica—Derangements of the stomach, spasms, heartburn, constipation, piles." Outside the bottle the doses were stated. The respondents had not paid any duty, and contended that they were within the special exemptions of the schedule to the Act of 1812, and that even if they were not so they had not contravened section 2 of the Act. Mr. Danckwerts said that with respect to the exemptions no evidence was given by the respondents, and under section 34 of the Summary Jurisdiction Act, 1879, if any facts were necessary to bring the case within the exemption, it was the duty of the defendants to prove those facts.

Mr. Justice Cave: The only point is whether there has been a contravention of section 2 of the Act of 1812.

Mr. Danckwerts said that in the Act of 1804, under Schedule B, it was provided that duty should be paid on every packet, box, or bottle containing drugs, herbs, pilules, essences, tinctures, or other preparations or compositions to be used or applied externally or internally as a medicine or medicament for the prevention, cure, and relief of disorders and complaints incident to and affecting the human body. Section 2 of the Act of 1812 provided that no person should utter, vend, or expose for sale any packet or bottle containing any drug, oil, tincture, pilule, or preparation mentioned in the schedule without a paper wrapper or covering supplied

by the Commissioners. The question was whether this particular preparation did not come within the words in the schedule "and also all other powders, tinctures, cordials, ointments, spirits, herbs, &c., to be used or applied externally or internally as a medicine and medicament for the prevention, cure, and relief of disorders and complaints incident to and affecting the human body, or made, prepared, or exposed for sale with, and which have at any time heretofore been or shall hereafter be by any public notice or advertisement, or by written or printed papers or handbills, held out to the public by the makers or proprietors thereof as nostrums or proprietary medicines beneficial to the cure, relief, or prevention of any complaint incident to or affecting the human body." Clearly the handbill in nux vomica recommended this medicine as being beneficial to the prevention, cure, or relief of some disorders.

Mr. Justice Cave: Where is the handbill relating to Gregory's powder?

Mr. Danckwerts: There is no handbill relating to that. We say that either the label on Gregory's powder or the advertisement on page 10 of the book is sufficient to satisfy the statute. The word "stomachic" in itself implies that it is for some complaint connected with the stomach.

Mr. Justice Cave: It is said that complaints of the stomach are the source of all evils which affect the human race. (Laughter)

Mr. Danckwerts: I have heard that. Then it describes what the dose is for an adult.

Mr. Justice Cave: That will not do alone, because every prescription dispensed tells what the dose is.

Mr. Danckwerts: But you would not generally take a dose of medicine except to relieve a complaint.

Mr. Justice Cave: I am speaking of the label on the bottle. Of course page 10——

Mr. Danckwerts: That goes very much further.

Mr. Justice Cave: Very much further.

Mr. Danckwerts submitted that the label also held out the medicine as beneficial to the cure of maladies incident to the human body. At any rate, at page 10 of the book the preparation was clearly held out as being fit for "acidity, flatulence, and loss of appetite."

Mr. Justice Cave: Oh, yes; there is plenty there.

Mr. Danckwerts next referred to nux vomica, and pointed out as stated above, the contents of the handbill and the words in the book. It was clear that nux vomica satified the statute. He submitted that the handbill was "a label, or words written or printed, delivered with any bottle or other enclosure containing medicine."

Mr. Justice Cave: Must not the written or printed paper or handbill be sent with the article?

Mr. Danckwerts: No; I submit not, because you will see the words intervening. The words are "or by any label." This book was delivered to the gentleman at the time when he made the purchase.

Mr. Chitty: No; he got the book previous to getting the medicine.

Mr. Danckwerts: That means at the same time—(laughter)—just before he got the medicine. There is nothing to bring these preparations within the exemptions. The exemptions relating to entire drugs could not apply because they must be vended by a surgeon, chemist, or druggist, who has served a regular apprenticeship, and it is clear this company could not have served a regular apprenticeship.

Mr. Justice Cave: If I went into an ordinary chemist's shop and asked for a box of Dr. Gregory's powder, and he gave me one, he would not contravene the Act unless there was some public notice or advertisement or some label or handbill.

Mr. Danckwerts: Yes; if it was made up by himself in the ordinary way, without any label or public notice, the duty would not be payable.

Mr. Chitty, for the respondents, said that with regard to Dr. Gregory's power the other side contended that the label was a public advertisement, and if it was not, then the book was. He (Mr. Chitty) submitted that the label did not hold out this preparation as a nostrum or proprietary medicine, or as anything beneficial to the prevention, cure, and relief of any complaint incident to the human body. It was simply an announcement of the nature of the preparation itself. As to the book being an advertisement, he denied that it was a public advertisement within the meaning of the Act. The section was governed by the qualification that the paper or handbill must be affixed to or delivered with the packet or bottle. Appellant had to show the respondents were the makers. There was no doubt they were chemists.

Mr. Justice Cave: That does not appear on the findings in the case.

Mr. Chitty: It is stated we are chemists.

Mr. Justice Cave: A company cannot be chemists.

Mr. Chitty: That has already been dealt with in the case of the Stores.

Mr. Justice Cave: All the drugs there are professed to be dispensed by a chemist.

Mr. Chitty: That is exactly what happens here.

Mr. Justice Cave: No, it is not. Where does it appear that this was sold by a chemist or druggist who has served an apprenticeship?

Mr. Chitty: It may be necessary that that fact should be found before your Lordships decide the point.

Mr. Justice Cave: I don't think that will help you, because this is sold by a company for the benefit of the company. You have to employ a proper chemist to dispense; it would not help you to employ such a man to sell the preparations.

Mr. Chitty, continuing, said that if anybody advertised a medicine, then nobody else could sell it. What he contended was meant by the Act was that if an advertisement was delivered with the preparation, then the man was liable. As to the book, it was a price-list published by the company and handed out to such persons as chose to apply for it.

Mr. Justice Cave: Is it distributed gratis?

Mr. Chitty: Yes, to persons who choose to apply for it. As to Gregory's powder, counsel added, that is a well-known preparation described in the Pharmacopœia. The schedule in the Act was only intended to apply to quack remedies, and this certainly was not one. With respect to nux vomica, that, he contended, came within the exemption of entire drugs. This was as much a simple drug as carbonate of soda or carbonate of potash.

The Court allowed the appeal, and Mr. Justice Cave, in giving judgment, said that the case must be remitted to the Magistrates with an intimation of the opinion of the Court that they ought not to have dismissed the informations. As to Dr. Gregory's powder, the Act brought within its scope all powders to be used as a medicine, and held out to the public by any notice or advertisement as being beneficial to the cure, relief, or prevention of any complaint to which the human body was incident. Supposing what appeared in the price-list appeared in any newspaper, which might cost ½*d*. or 1*d*., could it be contended that this was not an advertisement? As to nux vomica, the schedule in the Act mentioned all tinctures to be used externally or internally. This particular drug was not vended entire; it had to be mixed or dissolved in spirit of wine.

Mr. Justice Collins concurred.

Bovril Gets Damages.

On Thursday, before Mr. Justice Hawkins and a special jury, Mr. Lockwood, Q.C., appeared on behalf of Bovril (Limited) to recover damages for slander against the defendant, a man named Bailey, who is a dealer in broken-down horses. He was alleged to have made the statement that the horses he bought were for the purpose of being turned into Bovril. Mr. Lockwood said he had been unable to find an opponent.

Mr. Justice Hawkins: Do you want the case adjourned in order that you may find one?

Mr. Lockwood: I don't want your Lordship to appear for the defendant. (Laughter.)

The learned counsel recited the facts in the case, and called witnesses to prove the utterance of the slander, and in the result the jury found for the plaintiffs, damages 200*l*. His Lordship gave judgment accordingly.

The *Western Druggist* estimates that 8,000 young men and women were registered as pharmacists in the United States last year. This is eight times the number who have graduated at the schools and colleges. The estimate seems to us to err on the up-grade.

Trade Notes.

Messrs. Koch & Co., of 9 Bucklersbury, E.C., are bringing "Ella Plasters" before the public, and in doing so have resolved to only supply agents who will guarantee to maintain the retail price.

A gold medal has been awarded to Jeyes' Sanitary Compounds Company (Limited) at the lately-closed Norwich and East of England General Trades and Industrial Exhibition. This makes the sixtieth trophy of the kind in the company's possession.

Mr. W. Watson Will, F.C.S., Principal of the Metropolitan College of Pharmacy, 162 Kennington Park Road, S.E., has published a bulky synopsis of the Minor and Major courses of tuition at his college. Intending students may obtain copies on application to him.

At the Norwich and East of England Industrial and Traders' Exhibition, Messrs. De Carle & Son exhibited their ripe-fruit drinks or solid fruit juices, where thousands of visitors were invited to taste, free of charge. A gold medal and diploma have been awarded for these by the jurors.

A "Medicine-timer" in the form of a cardboard clock, with an indiarubber-ring attachment by which it can be hung on the neck of a medicine-bottle so as to indicate the next dose, has been patented, and is now supplied at a cheap price by the sundries-houses. It can be either sold or given away by chemists.

Mr. J. Hickisson, the proprietor of the Crystal Palace John Bond's (daughter) gold-medal marking-ink, informs us that he is now employing lady-detectives all over the country to discover where other marking-inks are supplied when his is asked for. Mr. Hickisson says in such cases he will accept no more apologies.

Messrs. Hockin, Wilson & Co., of New Inn Yard, Tottenham Court Road, W, send us a sample of a pretty ointment-pot for which they have been appointed sole agents. The pot is made of an azure-blue composition, the lid screws on, and the top of it is a blank white label. The pot is called the "Diamond." The price for the 2-oz. size (4*s.* 6*d.* per dozen) appears somewhat high for dispensing purposes.

Mr. Algernon Warren, of Bristol, who is a partner in a firm of methylated-spirit makers, has written a little pamphlet on methylated spirit, in which he gives a few of the regulations in regard to the sale of the article. He has no right, however, to describe his pamphlet as a "compendium" on the subject, for he does not treat it by any means completely. We are rather surprised, too, that the firm do not give the pamphlet to all applicants as an advertisement. They prefer, however, to sell it through Mr. Arrowsmith, printer, Bristol, at 4*d.*

We have received the first prospectus of the Newcastle-on-Tyne Pharmaceutical College, 35 Grainger Street. The principals are Messrs. A. Russell Bennet and Robert McChumpha, pharmaceutical chemists, and they have arranged day and evening classes. Mr. Bennet has done a lot of good work in connection with the Edinburgh and Newcastle Chemists' Assistants' Associations, and we notice from the introduction that he "has been engaged privately in this special kind of work for a few years, and has prepared all the gentlemen who have passed the major examination direct from Newcastle since 1891."

Loretin.—In our last volume we mentioned (page 854) the introduction of meta-iodo-oxyquinoline sulphonate under the name of loretin as a substitute for iodoform. The peculiar constitution of the compound appears to adapt it to that object, while its appearance (exactly that of iodoform) and the absence of odour give it peculiar claims as a substitute. Loretin was discovered by Professor Claus, of Freiburg, and is manufactured by Farbwerke vorm. Meister, Lucius & Brüning, for whom Messrs. Burroughs, Wellcome & Co. are agents in this country. The clinical and experimental reports supplied to us show that loretin is possessed of properties which entitle it to a fair trial in those cases in which iodoform is objectionable, as well as in surgical practice generally, as an antiseptic.

Powdered Herb-beer Extract.—Messrs. Southall Bros. & Barclay, of Birmingham, have introduced, in good time for the summer trade, a herb-beer extract in powder, which has some points of merit that warrant the attention of retailers. The extract is a coffee-brown powder, which dissolves almost completely in water, and, when diluted to the limit indicated for making herb-beer (a teaspoonful to 2 gallons of water), a perfectly clear and dark-coloured solution is obtained. This has a mild bitter, and aromatic taste, and the odour is agreeable. Perhaps the most notable point about the extract is that, being in powder, the essential oils and similar ingredients are not added until the product is dry, so that perfect distribution of the oily materials throughout the mass is obtained. Consequently the beer brewed from the powder does not vary in pungency. Samples of the beer which we have tasted show it to be a sound beverage—very sparkling, slightly tart, and we can imagine that on a hot day it would be grateful and refreshing. The extract is put up in tins. A sixpenny one is sufficient for 12 gallons of beer. Retailers can obtain the article with their own name and address on the labels, and the firm also offer circulars at a low rate.

Personalities.

Mr. J. B. Martin, chemist, has been appointed an elective auditor for the borough of Helston (Cornwall).

Mr. E. Byron de Bonne Robertson, whose name was erased from the *Medical Register* on May 26, 1892, has had it restored again.

Professor W. A. Tilden, F.R.S., will commence his duties at South Kensington, as successor to Professor Thorpe, in October.

Sir Benjamin Ward Richardson, M.D., proposes to reply to the criticisms on his counter-prescribing scheme in the next number of the *Asclepiad*.

Mr. Leonard A. Parry, M.R.C.S., L.R.C.P., son of Mr. W. P. Parry (Bartlett Hooper & Co.), has taken the degree of Bachelor of Medicine at the London University.

The *Chemical News* hopes that Dr. T. E. Thorpe, in his new sphere of activity, will not fail to see the absurdity of the addition of mineral naphtha to methylated spirit and to act upon his conviction.

Mrs. Rosa Upson, one of the American lady pharmacists whose portraits we printed on March 18, 1893, has sold her drug-store, and has gone to Milwaukee, Wis., to practise medicine. She is an M.D.

Mr. Alexander Manson, Treasurer of the Montreal College of Pharmacy, is a native of Thurso, N.B., and served his apprenticeship to the drug-trade in Golspie. When he went to Canada, in 1858, he entered Lyman's business, and ultimately became a partner in the firm; but in 1884 he left it, and is now associated with A. Ramsay & Son, Montreal, a paint and oil firm. Mr. David Watson, the President of the College, is also a Scotchman He got his early training in Arbroath. He is now a partner in the firm Kerry, Watson & Co., wholesale druggists, Montreal.

We regret to learn that Mr. J. G. F. Richardson, head of the firm of John Richardson & Co., Leicester (Limited), is confined to his residence at Stoneygate, near Leicester, in consequence of ill-health. Mr. Richardson has for some time been suffering from insomnia, and early last week started on a sea-voyage, with the hope of regaining his health, his intention being to take a cruise on one of the P. and O. boats as far as Brindisi. Soon after starting, however, he had a slight paralytic stroke, and became so ill that he found it necessary to land at Gibraltar, and to return home. Fortunately, Mr. A. T. Toller, barrister, an old friend of Mr. Richardson's, was travelling with him. This gentleman immediately accompanied his friend back to London, being met at Plymouth by Mr. H. N. B. Richardson, with whom he had communicated. Dr. Marriott is now in attendance, and has enjoined perfect rest and quietness. Already there is considerable improvement in his condition, and, with a due observance of the medical directions, it is hoped that Mr. Richardson will soon be about again.

Bankruptcies and Failures.

Re WILLIAM TAYLOR, 35 and 37 Stand Lane, Radcliffe, Druggist and Drysalter.

THE statement of affairs under this failure shows liabilities to the extent of 790*l.* 1*s.* 3*d.*, and assets estimated to realise 679*l.* 11*s.* 4*d.*, leaving a deficiency of 107*l.* 2*s.* 11*d.* Debtor purchased a business, where he had been assistant, ten years ago for 300*l.* It resulted in a profit, but he had guaranteed advances made to relatives, and, being called upon to meet the liabilities, an execution was issued, and the bailiffs took possession. The following are creditors :—

	£	s.	d.
Bowker, W., Radcliffe	80	0	0
Heath Brothers, Manchester	10	0	0
Taylor, John, Whitefield, near Manchester	21	0	0

Contingent Liabilities.

National Mercantile Bank, Manchester	536	0	0
Norton, Thomas, & Sons, Manchester	45	0	0
Union Bank, Manchester, Radcliffe Branch	100	0	0

Re JOHN RAYNHAM, Coggeshall, Patent-medicine Vendor.

THE liabilities in this failure amount to 170*l.*, with a deficiency of over 89*l.* The debtor commenced business in 1892 with a capital of about 170*l.*, of which 110*l.* was borrowed. Previously he had managed some farms at Barking at a salary of 25*s.* a week and house rent free. At Barking he brought out some specialities for cattle and horses, and, thinking that there was money in the venture, the place at Coggleshall was taken. The patent medicines were the principal part of the business, as the specialities did not answer expectations.

Re THOMAS WAITES, Easington Lane, Durham, Medical Botanist.

THIS debtor has filed a statement of affairs showing gross liabilities amounting to 699*l.* 2*s.*, of which the sum of 375*l.* 2*s.* 6*d.* is due to one creditor. The assets are returned at "nil." The public examination of the debtor was fixed for May 24, at the Durham Bankruptcy Court, but was adjourned until the next court.

Re FRANK LINTON MEADOWS, late of Wandsworth, Chemical Manufacturer.

UNDER the failure of this bankrupt, whose case was reported in our last issue, the public examination was held before Mr. Registrar Brougham, on May 25.

Upon the case being called the Official Receiver reported that no entries had been made in the books since October 19 last, and, as he understood that 300*l.* had been received by the bankrupt since that date, he applied for the statement of affairs to be amended, and a cash-account from October 19, 1893, to be furnished. Further, that a general meeting of the creditors had been called for May 31, with a view to appointing a trustee under the proceedings.

His Honour ordered the examination to be adjourned to June 22, and the bankrupt to supply the cash account within seven days.

Re LEONARD GROVES, 66 Mark Lane, E.C., Chemical Agent.

THIS bankrupt failed recently, with total liabilities 1,364*l.* 15*s.* 3*d.*, of which 933*l.* 16*s.* 11*d.* is expected to rank, against assets 443*l.* 12*s.* 4*d.*; and on May 24 he attended before Mr. Registrar Hope, at the London Bankruptcy Court, for public examination.

In reply to Mr. H. Brougham, Official Receiver, the bankrupt stated that, having been employed by a chemical agent for some years, he, in 1879, joined the widow of his late employer in partnership, and they carried on the same business, at 66 and 69 Mark Lane, under the style of "Leese & Groves." Mrs. Leese retired in or about 1884, receiving about 1,000*l.* as her share of the business.

Mr. Brougham: Did you pay that 1,000*l.*?

The witness said he did not actually hand over the money, but he knew that it was paid out of the business. Upon Mrs. Leese retiring he was joined by a Mr. Gander, who introduced 500*l.* into the business. They traded together under the style of "Groves & Gander" until July 1893, when Mr. Gander withdrew, witness agreeing to pay him 979*l.* in consideration of so doing. A sum of 350*l.* was paid to Mr. Gander in cash, and bills were given for the balance, but they had not yet been paid off and formed part of the present liabilities. Witness subsequently traded as Leonard Groves & Sons to the date of the receiving order, but had no son in partnership with him. The failure was caused partly by the payment out of capital to Mr. Gander, and partly because he agreed to pay Mr. Gander a larger sum than the position warranted. The books of account were not properly kept, and, although the firm was not insolvent at July, 1893, it now appeared that the capital had been nearly exhausted. The 979*l.* agreed to be paid to Mr. Gander was made up of various sums of money put into the partnership business by that gentleman, and a further 100*l.* representing one half of the undivided profits. No balance-sheet was made out when Mr. Gander withdrew from the business.

Mr. H. Brougham: As a matter of fact, was not the principal cause of the failure the excess of expenses over profits?

Witness agreed that was the case. Witness admitted that in July 1893 the firm was probably insolvent, but they did not know that was so. He became pressed for money in September. A private meeting of the creditors was held last March. Only two creditors were present thereat, and an offer to pay a composition of 5*s.* in the pound was rejected. Witness did not offer to secure the payment of that composition, but proposed to pay it from future profits of the business. He agreed last year to purchase a house at Wanstead for 1,600*l.*, and paid 10 per cent. deposit, which was forfeited, he being unable to carry out the purchase. This was his first failure.

Replying to counsel for the trustee, the bankrupt said the retirement of Mr. Gander crippled the business, as, in his opinion, the assets were then over-estimated. It was true that he had only paid Mr. Gander 350*l* in cash, and that, on the other hand, that gentleman had paid 357*l.* to the English Arsenic Company in respect of the firm's liabilities, which were outstanding at the date of dissolution. During the last few months some business with the old customers had been transacted by witness's son, but he emphatically denied that he had given his son either money or stock for the purpose. The latter had saved a little money, although he had only been in receipt of a weekly salary of 28*s.*, and was only 23 years of age.

Counsel: I put it to you that you advanced him the money to carry on the business.

The bankrupt (emphatically): Certainly not. His only reason for trading as Leonard Groves & Sons was that he hoped to have his son in partnership with him at some future time. It was true that out of a number of barrels of arsenic supplied to witness by the English Arsenic Company his son had dealt in four of the number, but the matter had been fully explained to the trustee. He denied emphatically that he had ordered 157 barrels of arsenic to be sent to his son and charged to himself.

Re-examined by his own solicitor, the bankrupt explained that the course adopted was with a view to keeping the business together. Witness was desirous that his creditors should not have their claims increased, and consequently let his son obtain the goods required by the customers, deliver them, receive the payment, and take it direct to the firms that had supplied the goods.

The examination was ordered to be concluded.

CHEMIST AND HAIRDRESSER.—On Tuesday, in the Westminster County Court, an application was made to Judge Lumley Smith for an order of committal against Mr. Adolph Phillips for non-payment of a judgment debt, at the instance of the Mutual Loan Fund Association. Their representative said the debtor was at present carrying on a good business at White's Row, Spitalfields, as chemist and hairdresser, but he never paid anybody except under committal orders. His Honour made an order for his committal to Holloway for twelve days.

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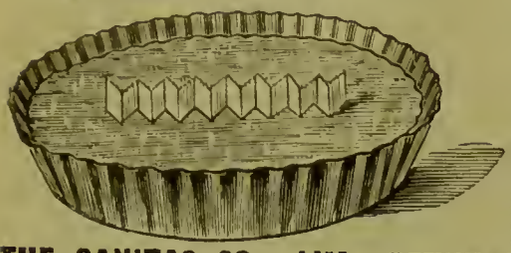

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Editorial Comments.

POISONINGS IN 1892.

THE Registrar-General's report of the births, deaths, and marriages occurring in England and Wales in 1892 has just been published. From this volume we have compiled the record of fatal poisonings registered during that year, and

this we publish in tabular form on page 759. A few comments on this table may be of interest.

It may be mentioned first of all that the report appears this year absurdly late. Our comments on the statistics of 1891 were published on January 28, 1893. There surely ought to be offered some explanation of the circumstance that those for 1892 are not available for the public until the end of May, 1894.

The total number of deaths in England and Wales attributable to poisons has been recorded as below during the past six years. Those classified as deaths from accident or negligence:—

1887	1888	1889	1890	1891	1892
457	377	376	330	544	514

And those described as cases of suicide:—

1887	1888	1889	1890	1891	1892
246	324	260	277	327	301

The apparent increase in the accidental deaths from poisoning during the past two years is principally explained by the circumstance that in those two records deaths from poisonous vapours, and from chloroform and other anæsthetics have been included in the statistics. Otherwise there is not much to be said about the slight variations which occur from year to year. The remarkable circumstance is the almost automatic regularity of these figures. It may be predicted, for example, with almost absolute certainty that one person out of every ten or eleven thousand in England and Wales will commit suicide within any particular year; that out of the 2,500 or so who will thus anticipate the decree of Nature, weapons will be the favourite means of ending the weary contest, hanging will be a good second, with drowning fairly close up, and poisoning fourth in the order of popularity. More than this the exact proportion in which the different poisons will be used can be similarly foretold within very narrow limits.

The carbolic-acid record is still on the rise; 33 accidental deaths and 73 suicides are charged to its account in 1892, against 31 and 63 respectively in 1891. In the list lead stands highest as the cause of accidental poisonings, but this is of course the lead-poisoning contracted in earthenware and similar factories. Opium and its derivatives retain their pre-eminence as the cause of accidental deaths. In 1891 97 accidental deaths were attributed to these agents; in 1892 the number was 95. As the poison used by suicides "opium, laudanum, and morphia" were quoted 53 times in 1891, and 54 times in 1892. As the popular agent for suicide these are and have been for years easily outdistanced by the officially harmless carbolic acid. We have become long since weary of pointing out that for this general adoption of one the most cruel agents which suicides could possibly use, the Privy Council is directly responsible. It is amazing that in view of these annual figures, and merely for the sake of maintaining an attitude which passes at Whitehall for firmness, this monstrous refusal to schedule carbolic acid should be persisted in. The medical members of Parliament who have no word to say on the subject are not much less culpable.

There are several curious facts in regard to poisoning which the table published suggests. The four deaths (and this is about the average) attributed to "soothing syrup, cordial, paregoric" are far fewer than one would suppose from reading the bitter denunciations of such preparations which get into the papers sometimes. The large number of poisonings from unidentified agents ("kind not stated") is somewhat remarkable, and seems to show inefficient inquiry somewhere. One other point, too, is worthy of comment. It is not proved by the table, but is suggested by it. It is the extremely small proportion of poisonings which are traceable to chemists' mistakes. The accidental deaths recorded are nearly always the result of carelessness, stupidity, or mischance occurring when the poisons are out of the custody of the pharmacists. We should certainly report every chemist's mistake which became known, and we do not believe we have reported six suspected cases, even, in the last ten years. This consideration is worth noting, in view of the not infrequent assumption that chemists are in some sense responsible for every misadventure which occurs with poisons, which influences the minds of coroners, juries, and legislators.

THE PHARMACOPŒIA REPORT.

DR. ATTFIELD'S eighth report to the Medical Council on the British Pharmacopœia deals chiefly with fundamentals, the early approach of another edition of our national formulary apparently calling for these considerations. The "preparations and compounds" discussed are few in number. *Acetum* gets a page, not in continuation of the controversy on "What is vinegar?" but in the light of its employment in the preparation of *Emplastrum saponis fuscum*. It was scarcely worth the professor's pains to discuss the matter so fully, for the plaster has fallen into disuse, and if the Pharmacopœia Committee would quietly drop it they would hear nothing more about it. *Aconitine* is treated seriously in the light of the research of Dunstan and his colleagues, and it is considered "most important that in future nothing but pure crystalline aconitine possessing the characters fully described in the *Pharmaceutical Journal*, 3rd series, vol. xxii. p. 55, should be used in medicine." We hope that some further attention will be given to this matter before the suggestion is adopted. The crystalline alkaloid referred to is "a slightly impure" product, but unquestionably fit for therapeutic purposes, and nearly equal in purity to the best obtainable commercial aconitine. What we cannot clearly understand in this matter is why we have to wait for an elaborate research before the Pharmacopœia description conforms to the best commercial product. Dr. Attfield suggests an amended monograph for *Aqua destillata*, so as to provide for the use of potassium permanganate and an alkali in the still in order to destroy nitrites and ensure the liberation of ammonia. This is an old suggestion made in a different form by Mr. T. P. Blunt at a pharmaceutical evening meeting in 1885, and repeated in "The Art of Dispensing." But it is the more recent remarks by Coull, Hill, Hyslop, and Sage which have prompted Dr. Attfield's suggestion, and the use of alkali instead of acid, as recommended by Blunt, is the notable alteration. *Argenti nitras* and *Arsenii iodidum* are introduced as examples of those substances for which no method of preparation is necessary in the Pharmacopœia. As the Pharmacopœia is no longer, if it ever has been in the strict sense of the term, an educational text-book, directions for the preparation of definite chemicals may be omitted from it, since by characters and tests the identity and purity of the substances may be determined. Technical chemistry has advanced so far, and the production of medicinal chemicals is so independent of Pharmacopœias, that it almost seems as ridiculous to describe the processes of manufacture as it would be to tell how roots grow and barks are peeled. There can be no fear of disaster happening to medicine by following Dr. Attfield's advice in this matter. One of the most important paragraphs in the report is on "varieties of ether." There has been much controversy of late years on the purity of ether and the inadequacy of the pharmacopœial characters and tests. Now, mainly on account of the representations of A. C. Abraham, and D. B. Dott, the specific gravity of æther purus may be raised to

0·724, and the definition and tests otherwise altered slightly. This does not, however, meet the whole difficulty, for the larger proportion of ether used in medicine and surgery is prepared from methylated spirit, and is almost indistinguishable from ether made from rectified spirit. Dott has suggested that methylated ether should be made official. Dr. Attfield favours the suggestion, but he would place the methylated variety on a distinct platform, because "the 10 per cent. or so of methyl-ether and its attendant wood-products present in 'methylated ether' *may* be harmless if inhaled, but, until pharmacologists have satisfactorily demonstrated the harmlessness, methyl compounds, &c., must be deemed impurities in 'æther.'" This is correct reasoning, but, we take it, Dr. Attfield has made a slip in supposing that the 10 per cent. of wood-spirit in methylated spirit is found in the oxidised state, and in similar proportion, in the finished product. Mr. Dott correctly describes it in the monograph which he supplies to Dr. Attfield as "consisting for the most part of ethyl-ether with a small proportion of methyl-ether." If methylated ether should be made official, a definition of methylated spirit would also be required, and this Mr. Dott supplies, but we notice that he does not include a test for distinguishing between methylated spirit containing paraffin and the old article supplied only to manufacturers. A sentence to the following effect would suffice:—"Forms a clear solution when mixed with twice its volume of distilled water." The recognition of methylated spirit is a question of policy which Dr. Attfield leaves for the Medical Council's decision. We would suggest that while they are at it they would do a service to medicine and pharmacy, by extending recognition to the alternative use of methylated spirit in the preparation of aconite, belladonna, compound camphor, and soap liniments as permitted by the Board of Inland Revenue. The only other topics which come under this section of the report are liquor magnesiæ carbonatis and the fixed caustic alkalies, for which improved tests are suggested.

The Appendix to the Pharmacopœia provides two questions which Dr. Attfield discusses at some length. These are the more extended recognition of the metric system and an improved table of atomic weights. The latter we print elsewhere in this issue. It really does not call for lengthy comment. Scientific chemists have for some time been hair-splitting in regard to atomic weights; but this scarcely concerns pharmacy, and the disadvantage of adopting the latest views has been admirably exemplified in the United States Pharmacopœia. As little need be said regarding the introduction of metric weights and measures. "Although the day," Dr. Attfield remarks, "that shall see its *sole* use in the *British Pharmacopœia* is probably very far distant, the desirability of its full *alternative* use in that work in such a way that the Pharmacopœias of English-speaking nations shall at least not be inharmonious with each other will probably be conceded." The following example shows how Dr. Attfield proposes to introduce the system:—

Tinctura Aloes—*Tincture of Aloes.*

Take of

Socotrine aloes, in coarse powder ½ oz. or 25 grammes.
Extract of liquorice .. .. 1½ ,, or 75 ,,
Proof spirit, sufficient to produce 1 pint or 1 litre.

Macerate the aloes, &c.

To this there can be no objection, but we do not think that 1 per cent. of retail pharmacists, even in Canada, use or have metric weights and measures. In the preface one subject is mentioned which is not further dealt with in the report—that is "the known difficulty of deciding on 'omissions' from the British Pharmacopœia." Dr. Attfield says:—

"This difficulty results from the circumstance that remedies rarely, if ever, used in most parts of the United Kingdom may more or less be employed in certain districts—a circumstance rendering very troublesome the task of ascertaining what remedies are rarely, if ever, used at all in any part of the country. Now, if the Medical Council were to appeal to some two or more of the medical or pharmaceutical organisations having branch organisations or local secretaries throughout the country for help in ascertaining with fair exactitude the degree of frequency or infrequency with which each drug or preparation in a given small list appears in the prescriptions of medical practitioners in the locality, the tabulated results would at once afford the desired information. I feel sure that all concerned would gladly respond to any such official request."

This seems to be inspired by Mr. Martindale's analysis, which we compare very fully to-day with our own, this comparison giving ample support to the suggestion which Dr. Attfield puts forward. It will be understood that when the revision of the Pharmacopœia is actually undertaken the Medical Council will have Dr. Attfield's seven previous reports before them, and these deal with a very large number of subjects, so that the probable emendation may be extensive. We are still of opinion that all this mass of critical material should be checked practically before it is adopted, and the Medical Council could not devote the Pharmacopœia profits to a better purpose than providing their reporter with one or two young pharmacists to work on the subjects for the next two or three years. This is a work which a pharmaceutical committee cannot be expected to do, and if it is to be done at all it must be done systematically.

THE MEDICINES WE DISPENSE.

Adopting once more the title under which we wrote in 1886, when commenting upon our analysis of ten thousand prescriptions, we resume the comparison of the figures of that year with those which Mr. Martindale has recently collated. We stated last week that the pamphlet was undated. This was erroneous, "May 19, 1894," appearing at the end of the preface. We regret that we overlooked this in the haste of our publishing-day. A careful comparison of Mr. Martindale's figures and our own shows that in regard to medicines as a whole little or no change has occurred during the past eight years. That is to say, the greater proportion of those in the recent list are closely comparable with the same articles in that of 1886. But there are many instances of change, and it is in this that periodical analyses of prescriptions are valuable. In his preface Mr. Martindale gives a list of official preparations which have not been once ordered in his 12,000 prescriptions. There are 126 articles in this list, and we find that 79 of these were not ordered in 1886, while of the 47 which were ordered none occurred more than four times in the 10,000. This list forms one of the most valuable factors which analyses of prescriptions afford to the Pharmacopœia authorities, for if an official article does not occur once in every ten or twelve thousand prescriptions dispensed, it is fair to assume that it occupies space in the Pharmacopœia needlessly. Certain considerations must, of course, be taken into account. For instance, our analysis and Mr. Martindale's agree as to ammonium nitrate, which was not ordered; nevertheless the Pharmacopœia standard is most useful for those who make nitrous-oxide gas. But we can see no reason for retaining ammonium phosphate, which was not prescribed in 1886 or 1894, and for which there is no retail demand. Another group of medicines which do not occur in prescriptions includes such as argenti et potassii nitras, hypodermic in-

jections, and certain liquors, such as liq. acid. chromic. and liq. sodii ethylatis. These are medicines for the use of the medical practitioner, and must be retained in the Pharmacopœia, although medical prescriptions seem to indicate that they are not wanted. Again, the group of retail medicines must be considered. In the "not once prescribed" list there are charta sinapis, ess. anisi, some of the effervescent liquors, magnesia levis, mastiche, and vin. quininæ, which few would say should be taken from the Pharmacopœia; it would be ridiculous to do so. On the other hand, the cataplasmata, decocti citrariæ, granati radicis, hordei and papaveris, the enemata, some extracts and infusions, lin. hydrargyri, certain liquors, some oils, pills, and powders, a few tinctures and lozenges, about a dozen ointments, and four vapours are perfectly obsolete, and it would be a charity for the Pharmacopœia authorities to wipe them out of existence. We know that this is a grave matter, and that the authorities have to bear in mind probable isolated yet strong demands for a medicine; but the "not once prescribed list" does require serious consideration. There are at least fifty medicines in it which are quite obsolete so far as extra-hospital pharmacy is concerned; and even in regard to hospital pharmacy we question if much can be said for the retention of the cataplasmata, enemata, and vapores. What, for example, can be said on behalf of vapor chlori, a remedy for phthisis dating from 1840, and long since extinct? Or for vapores acidi hydrocyanici, creosoti, and iodi? There has been an entire revolution in treatment by inhalations since these were placed in the Pharmacopœia, and official progress has not kept pace with therapeutic advance. We note, for instance, that in 1886 tr. benzoin. co. occurred 11 times in our list, but in Mr. Martindale's it stands at 80—an advance due, we take it, solely to the use of this tincture for inhalations. Other examples could be mentioned, and the moral which can be drawn from consideration of the "not once prescribed" list is that the Pharmacopœia authorities should, through their pharmaceutical adviser, make periodical inquiries on the lines which we started, and which Mr. Martindale has supplemented. We are convinced from our comparison of the two analyses that this would be useful, and reasoning from our experience the line of inquiry which we would suggest would be somewhat as follows:—(1) All towns in the United Kingdom of over 10,000 inhabitants should be tapped; (2) a whole year's prescriptions or trading should be dealt with; (3) printed lists should be sent to pharmacists with blank columns for the records headed, *e.g.*, "In medical prescriptions," "Sold retail frequently," and "Sold retail rarely."

Mr. Martindale's analysis shows the weakness of his selection of towns, because in the large majority of instances in which his figures are greatly different from ours, we find that this is due to local idiosyncrasy. We can only mention a few of the most noteworthy examples. Aberdeen prescribers whose prescriptions are dispensed by Messrs. Davidson & Kay are responsible for increasing the scores of the following:—Atrop. sulph. from 23 in 1886, to 59 in 1894 (Aberdeen alone 22); aurantii cortex scores 39, all from the granite city; 43 times was ferri arsenias prescribed as compared with 8 times in 1886, and Aberdeen and Carlisle make up 30 of the score. All the demand for gentian. rad. is in Aberdeen—39 as compared with 3 in 1886; the same may also be said of homatropin. hydrochlor. 44, lotio acid. boric. 103, papain. 14, and senna 40. Doubtless one prescriber is responsible for these high scores; he has his peculiarities, and they affect the total vote.

Bournemouth, as a haven for invalids, might be expected to figure anomalously in the list. We find that the 15 times that aletris cordial was prescribed it was in Bournemouth, and the following medicines also owe their high figures to that town:—Elixir. aurantii 52, emuls. ol. morrhuæ c. hypophos. 45, ext. tarax. liq. 16, and some bitter tinctures and other tonics occur from two to four times oftener in Bournemouth prescriptions than in those dispensed elsewhere. Of all the towns from which the prescriptions have been drawn, London shows the fewest peculiarities, and Carlisle, Cork, and Oxford may be placed on a footing with Aberdeen as showing the influence of individual prescribers. We observe that our figure (68) for bismuth carbonate has increased to 191, of which Carlisle contributes 66, and of the 37 times that conf. rosæ gall. was ordered Carlisle had 21 of the score. It would seem, too, that the border town uses all the emp. bellad. extens. prescribed (13), and 21 out of 24 of the ferri et strych. cit. Cork is a great sinner, and is responsible for many of the advances in apparent popularity. We shall table a few of the more striking instances to show how this applies:—

	C. & D.	W. M.	Cork.
Ac. arsenios.	16	73	32
„ boric.	66	390	144
Ammon. iod.	2	27	20
Ext. belladon.	135	301	108
Ext. gentian.	53	103	50
Ext. nucis vom.	125	207	120
Iridin	9	46	24
Liq. opii sed. (Battley)	16	40	18
Pil. hydrarg.	174	273	91

Favourites in Oxford which materially affect the averages are:—Aq. anethi, bromidia, dec. cinchonæ, elixir simplex, and oxymel. scillæ.

Having eliminated from the analyses all data which have been influenced by local peculiarity, we come to those medicines which have gone up or down during the eight years since we made our analysis. Those which seem to be on the down grade are:—

	1886	1894
Acid. gallic.	33	9
Adeps præp.	50	16
Ammon. carb.	551	397
Butyl-chloral hyd.	29	15
Chloral hydras	141	82
Copaiba	22	3
Creosote	27	13
Hyd. c. cretâ	238	155
Jalap.	48	3
Ol. pini sylv.	16	6
Pot. brom	717	365
Pulv. cinnam. co.	66	37
Pulv. jalapæ co.	30	11
Rhei rad.	229	97
Spt. æther. nit.	413	272
Terebene	51	28

Practically the whole of these changes can be accounted for. Gallic acid is no longer the physician's sheet-anchor for hæmoptysis; lard is replaced by vascline and lanoline; butyl-chloral is really not the anti-neuralgic panacea that it was reputed to be; and doctors are more sparing in the use of chloral hydrate, as they are of all pure soporifics. Copaiba is a popular medicine, but the antiseptic treatment of venereal complaints makes the doctor almost independent of it; jalap is losing popularity all round, and so are other old vegetable purgatives: cascara sagrada and compound liquorice-powder are killing them. Ol. pini sylvestris has been displaced by ol. pini pumilionis, and doubtless Sir Morell Mackenzie's death has something to do with its fall. Potassium bromide and most other potassium salts have gone back, because the deleterious physiological influence of potassium salts is now more generally appreciated. Consequently some sodium salts have become more popular. Physicians are losing faith in spt. æther. nit.; indeed, few of the new school of practitioners

prescribe it. Terebene is rapidly going back to obscurity. The medicines which have come into use since 1886 are fairly numerous. We mention most of them, with their scores, which compare with *nil*:—Analgene, 9; antifebrin, 8; apiol, 6; apomorphine, 12; Franz Josef water, 6; bismuth salicylate, 12; gelatine capsules, generally; emp. capsici, 17; eucalyptol, 6; homatropine hydrobromate, 44; ol. pini pumil. 27; paroleinc, 19; palatinoids, various; piperazine, 21; salacetol, 9; salol, 28; sulphonal, 85; and ung. hamamelid., 15. Some of these were known eight years ago, but were not prescribed. The marked advances during the period are:—Aloin, from 33 to 65; caffeine citrate, from 5 to 37; calamine, from 4 to 26; cocaine and its hydrochlorate, from 21 to 218; elixir aurantii, from 1 to 52; elixir simplex, from 1 to 32; euonymin, from 60 to 115; ext. glycyrrh. liq., from 31 to 102; ferri sulph. exsicc. from 7 to 52; iodoform, from 23 to 67; lanoline, from 14 to 147; menthol, from 6 to 51; ol. eucalypti, from 27 to 63; salicin, from 58 to 166; sodium sulphate, from 3 to 113; and vaseline, from 143 to 234. In some of these cases the increase is, no doubt, due to the publication of formulæ either in the B.P. or B P.C. Formulary, and in others growing popularity and better knowledge are the chief causes of increase. Many preparations which were in our list we do not find in Mr. Martindale's. These are chiefly proprietary articles. We cannot imagine, for example, that ext. malti (Kepler), lac. bismuthi (Symes), syr. hypophos. co. (Fellows), liq. pancreat. (Benger), hazeline, and mist. pepsin. co. (Hewlett) have ceased to be prescribed, and we cannot explain why they do not occur in Mr. Martindale's list. Of course, he has taken the "Extra Pharmacopœia" index as his register, and that may account for it; but we should have been interested to know whether there has been an increase or a decrease in the prescribing of specialities since 1886, and this is what Mr. Martindale's analysis does not tell us.

THE OPIUM-MARKET.

When we last commented editorially upon the commercial position of opium (in our issue of March 3), the market for that important drug was in an excited condition. Prices were advancing rather rapidly, and a great many sanguine operators professed their faith in a further and important rise. At that time we pointed out that the so-called excitement rested mainly upon a strong speculative movement in the United States, and expressed our doubt in the continuation of the advance. Nearly three months have since gone by, and in the course of that period a remarkable change has come over the market. The blatant bawl of the bull-speculator is hushed, and in its stead we have voices from the East lamenting, with a unanimity rare in the opium-chronicles, that there is now no solid barrier between the holder of opium-stock and the abyss of depreciation. From Constantinople, where, until recently, the prevailing sentiment was one of confidence in the maintenance of prices (an actual advance appears to have been considered out of the question, even by the "strong" holders in that city), our correspondent reported last week that "a collapse seemed imminent," and from Smyrna we hear a like doleful tale.

The last mail advices from that centre carry us to May 26, when a "sudden decline" of several pence had to be reported. As usual, this drop is attributed to the action of "small and needy" dealers, who, not knowing where to turn for funds, have been compelled to sell out at any price. It is no doubt exceedingly unfair to the large and wealthy holders that their eminences' stock should be exposed to continued depreciation through the inconsiderate action of a contemptible pack of small (and, worse still, "needy") individuals, but the fact, unfortunately, has to be reckoned with that a large proportion of the supply appears to be in the hands of such hard-up persons. That does not look well for the future of the market from a large holders' point of view. But besides the danger of underselling, the holders now have to reckon with the circumstance that the new opium-crop, of which the advance-guard is now at the gates of Smyrna and Stamboul, is likely to prove very much larger than had been expected. Until quite recently the reports, assiduously fostered by a few large dealers, that the sowings had been unusually small, and that damage had happened to the crop by unseasonable rains and droughts, appear to have been believed in by most of the leading dealers in the drug, and by a large section of the consumers, who will certainly have plenty of leisure this year to regret having listened to the voice of the tempter. At present even the pretext of any belief in a small crop seems to have been abandoned in Smyrna and Constantinople. Nay, New York, hitherto the centre of the opium-stalwarts, has lost faith. Our correspondent in that city, writing on May 21 reports:—"Opium continues to sag. There is no longer any interest manifested in the article, and business in the drug is limited to the execution of an occasional jobbing order. Buyers will not venture beyond actual wants. The course of the market from this time forward will doubtless be governed by crop-conditions only, and as the reports to hand agree that the new crop is a favourable one, there is little hope of an improvement in value." With regard to the coming crop we have received the following reports from Smyrna:—

"In this city the opium-stock is now almost entirely in the hands of Greeks and of the agents for American houses. A few far-seeing holders have profited by every opportunity to rid themselves of their stock, but others, more headstrong, have stuck to their holdings to the last. We are now face to face with a crop of great abundance, and with the fact that the American buyers, our sole prop, have ceased to support our market. The stock in Constantinople, which your correspondent in that city estimates at 455 cases, is, in fact, I should think, over 700; here in Smyrna we now hold about 1,400 cases, and in the producing districts another 500 cases are probably kept in reserve. This heavy supply is in so many different hands that as soon as there is the slightest cessation in the demand sellers begin to press upon the market from all quarters, all eager to undersell one another. According to the most careful estimates the new crop in 12 per cent. of the area under cultivation will only be one-fourth of that of last year, in 10 per cent. of the area it will amount to one-half, in 40 per cent. it will be the same, in 45 per cent. be twice as large, and in the remaining 13 per cent of the area the yield will be the largest on record. The district of Salonica in European Turkey, which in 1893 only produced 200 cases, will yield over 1,400 cases this season. Bogaditz, Balukessar, and others will produce 600 cases compared with 200 last season. The numerous smaller localities, such as Karagatz, Esme, Demirdji, Davas, &c., which last season only produced from 5 to 15 cases each, promise on this occasion to throw upon our market over 100 cases each. So far, in short, as we can now estimate it, the new crop will without fail reach a total of 6,500 cases, and if the weather continues to be as favourable as it has been up to the present, there is a possibility that an 8,000-case crop may be produced."

Without rendering ourselves responsible in every respect for the accuracy of our correspondent's estimates, we see no reason to believe that the crop will be otherwise than a large one, or that it will carry with it (exceptional speculative movements excluded) a summer of low prices for opium and its derivatives.

A NEW COFFEE.

OF substitutes for coffee there is no lack, and they range from roasted acorns and date-seeds to chicory and horsebeans; but a brand new variety of the well-tried old Arabian sort is a novelty worth recording, and such as has not been heard of since the Liberian species was brought to notice twenty years ago. The new coffee, unfortunately, has a very ugly name, but this may be fully compensated for by its superior quality when that part of the question comes to be tested, for at present no actual examination has been made of its properties or aroma when roasted and ground. Our information, so far as it goes, on this wonderful coffee is based on the high authority of the botanical bureau of Kew, and appears in the number of the *Bulletin* of that establishment for May. The plant, under the name of Maragogipe coffee, was introduced to the notice of planters by Mr. Thos. Christy, of 25 Lime Street, who obtained it from Brazil just ten years ago. The Kew plant, which is growing in the great palm-house, is some 10 or 15 feet high, and has this year produced a good crop of fruit. It is a vigorous grower, producing leaves fully twice the size of those of Arabian coffee, and the fruits or cherries are quite an inch long, or double the size of those of the old Arabian sort. They are soft when ripe, red in colour, with a silky smooth surface and a very small proportion of pulp. From the fact of the plant being a very vigorous grower, attaining a height of 8 or 10 feet in three or four years, and producing large crops of fruit at that age, it has been estimated that the weight of coffee per acre must be very much more than from the ordinary coffee-tree. Although Maragogipe coffee has been grown experimentally in Ceylon, Java, Jamaica, and Trinidad, no reports seem to have reached Kew as to the results. It would appear, however, to have taken some hold in Ceylon, for a large quantity of seed was shipped direct to Ceylon from Brazil in 1884. It has also been cultivated since 1887 in the botanic gardens, Trinidad, while in Jamaica about a dozen plants were raised from seeds received in 1883, and these were distributed for trial amongst the leading planters in the Blue Mountain district during 1884 and 1885. In the gardens of the Queensland Acclimatisation Society a plant originally introduced from Kew bore heavy crops of seeds last year, from which a large stock of plants were to be raised for distribution this year, so that we may expect, before long, to hear of a general demand among coffee-planters for this new kind of coffee, and ultimately to see it in our grocers' shops as a competitor with the far-famed Mocha.

KLORODYNE.

Why did Messrs. Kay Brothers announce in their now revoked patent-specification their intention to spell the name of their product "Klorodyne"? Was it their idea that this might be an essential part of their monopoly? It is well known that "the law is a hass," but we imagine it is hardly so decrepit as to let itself be bested in this way. It is hardly likely the word "Klorodyne" could be registered as a trade-mark, but it would be a new idea altogether if a monopoly in it could be secured by patenting it.

THE OPEN-SHOP QUESTION.

The Exeter watchmaker who, according to the Queen's Bench Judges, kept open shop for the sale of poison within the meaning of the Pharmacy Act seems to us to have had rather hard measure dealt out to him. That he infringed the Act by selling a scheduled poison was not disputed. But for some occult reason the Pharmaceutical Society chose to sue him not for that offence, but for keeping open shop for the sale of poison. It was proved that his shop wa kept open *bonâ fide* for the purposes of his business as watchmaker. He made no use of it to push the sale of hi corrosive-sublimate specific, which was, in fact, kept in back room, and was only supplied to old acquaintance when asked for. It was an accident that the stuff was sol through the shop at all; it might just as well have been sol out of the back door. Could he be said to keep open sho *for* the sale of poison—that is, with the object of sellin poisons? If two or three persons meet in a shop and dis cuss the Budget, for example, it would be obviousl ridiculous to say that the shop was kept open for discussion The County Court Judge seems to have had a good bit reason on his side, though we suppose the superior kind wisdom is provided by the High Court.

A NEW BLUE-LIST.

The honorary secretaries of the British Pharmaceutica Conference have issued a new blue list. The old four-pag quarto sheet gives place to a neat eight-page octavo one. Som new subjects have been added. The total number is sixt but we notice that a lot of chestnuts have been removed We observe that a paper on the value of commercial papai as a digester is still wanted. We should have thought tha the Conference could afford to leave that alone. So also i regard to the suggested inquiry on thyroid-gland prepara tions, which the pharmacist alone cannot settle. At an rate, the problem is rapidly working out itself, thyroid feed ing becoming more popular. There are a few other subject of questionable importance in the list; but as a whole provides investigators with useful suggestions for paper and that is the object which the honorary secretaries have i view.

A NEW PATENTED MEDICINE.

We find that Patent No. 6,178, 1893, granted to Mr. Edwa Mandall, Tower Works, Stockton-on-Tees, is for a medici for the cure of coughs, colds, hoarseness, and bronchiti The formula for it is:—

Ext. glycyrrhiz. liq.	℥j.
Mucil. acaciæ	℥ij.
„ lich. hibern.	℥ij.
Glycerin. pur.	℥ij.
Tr. chloroform. et morphinæ, B.P.	℥iij.
Syr. scillæ	℥vj.
„ althææ	℥ij.
Vin. antim.	℥iss.
„ ipecac.	℥iss.
Ol. anisi	♏j.
Spt. camphor.	℥ss.
Acid. benzoic.	gr. iss.
Aquæ ad	℥viij.

M.S.A.

Perhaps the Pharmaceutical Council may regard this as poisonous patented medicine. If so, they know what to d

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Gazette

PARTNERSHIP DISSOLVED.

Botwood, C. W., and Bascombe, W., under the style of Burrough & Co., Birkenhead, chemists and druggists.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDER.

Caffin, S. Mannington, Gwendwr Road, West Kensington, W., surgeo

ADJUDICATIONS.

Graves, Joseph Waddington, Sandwich, chemist and druggist.
Hamilton, Richard MacConnachie, Alfreton, veterinary surgeon.
Taylor, William, Radcliffe, druggist and drysalter.

Medical Gleanings.

Application for Enlarged Glands.

Iodoformi	ʒj.
Bals. peruviani	ʒj.
Colodii	℥j.

M.

To be painted over the swellings every night.

—*Medical Press.*

Exalgine Solution.

The following formula for a solution of exalgine to be used subcutaneously is recommended in France and Germany:—

Exalgine	gr. xv.
Salicylate of soda	„ xvij.
Distilled water	ʒiiss.

Dissolve.

Baldness.

Dr. George Thomas Jackson, a New York dermatologist has made a study of 100 cases of loss of hair—65 men and the balance women. Amongst the former were 15 physicians, 8 clerks, 5 lawyers, and 5 brokers, these being the highest numbers. The majority of them began to lose their hair between 20 and 30, and it would appear that the hair goes more quickly with men engaged in mental labour than in those who use the hands more than the head. Apart from diseases of the scalp which cause the loss of hair, it was observed that in 52 per cent. of the cases anæmia, chorea, constipation, dyspepsia, endometritis, gout, headaches, malaria, metrorrhagia, over-training, spermatorrhœa, menopause, chronic urethritis and uterine fibroids were causes predisposing to baldness.

Snuffs for Cold in the Head.

At a recent meeting of the Paris Société de Thérapeutique the following prescriptions for coryza were well spoken of by members:—

Betol, in fine powder	ʒiiss.
Menthol „ „	gr. xv.
Cocaine „ „	gr. vj.
Coffee „ „	ʒiss.

Mix.

Salicylate of bismuth	ʒvj.
Camphor	ʒiss.
Hydrochlorate of cocaine	gr. j.

Mix.

The following pomade is also useful for applying to the nostrils:—

Menthol	gr. j. to gr. iv.
Boric acid	ʒiss.
Vaseline	ʒx.

Mix.

Toothache-cures.

Mr. Main Nichol, in a communication to the *Dental Record*, advocates some new remedies for the various forms of toothache. The dull, constant aching due to periosteal inflammation is, he thinks, more effectually relieved by means of a comparatively fresh aconite leaf than by the tincture of aconite, the former having greater strength and more persistent action. The gum over the inflamed root being dried, a piece of the leaf of suitable size is cut, and this is simply pressed into place, where, as a rule, it may remain as long as a capsicum plaster. Leaves may be kept moist in a tin box with a tight-fitting lid, in the interior of which is a damp sponge. In pyorrhœa alveolaris a common symptom is an intense itching, almost akin to pain and perhaps more intolerable, provoking a constant desire to rub the gums. This pruritis readily disappears with the employment of a solution of one of the essential oils—notably peppermint—used as a mouth-wash or tooth-brush tincture. Where pulps are acutely inflamed Mr. Nichol advocates the heroic treatment of drilling into them with the dental engine, and maintains that the relief obtained more than compensates for the pain of the operation.

Scientific Notes:

Chemistry, Pharmacy, Botany, Materia Medica, &c. Original, Selected and Translated.

Oil of Lemongrass.

MM. Ph. Barbier and L. Bouveault have obtained an unsaturated natural ketone from oil of lemongrass (*Andropogon citratus*). It has the composition

$$(CH_3)_2 : C : CH . CH_2 CH_2, CO, CH_3.$$

It has a very agreeable but penetrating odour, and boils at 169–170° under ordinary pressure. A report of their work has been submitted to the Paris Academy of Sciences.

The World's Family of Plants.

Professor Saccardo calculates the number of species of plants at present known as 173,706, distributed as follows:—Flowering plants, 105,231; ferns, 2,819; other vascular cryptogams, 565; mosses, 4,609; hepaticæ, 3,041; lichens, 5,600; fungi, 39,603; algæ, 12,178. Professor Saccardo thinks it probable that the total number of existing species of fungi may amount to 250,000, and of all other plants to 135,000.

Solnine.

Mr. J. U. Lloyd, of Cincinnati, has made a chemical study of the root of *Solanum carolinense*, a medicinal agent which has been much neglected, both chemically and therapeutically. It has proved very serviceable in the treatment of "convulsive disorders" of females, especially those complaints which are associated with the menstrual functions. Mr. Lloyd examined the root directly for an alkaloid, which he found by the following method—viz., exhaustion by percolation with rectified spirit, evaporation of the percolate with 1 of water for every 4 of the drug used until all spirit is distilled, acidifying with sulphuric acid, and diluting with the same bulk of water, then allowing to stand for twenty-four hours. At the end of this time the supernatant liquid is decanted, filtered, and ammonia solution added in excess. The alkaloid is extracted with chloroform, and the chloroformic solution is evaporated to a syrupy consistence. The residue is extracted with dilute sulphuric acid (1–50), fil-

A

B

tered, and the ammonia-chloroform operations repeated until the alkaloidal residue is soluble in chloroform and dilute sulphuric acid. The dry residue is then extracted by repeated washings with boiling ether, which evaporated yields the alkaloid in yellowish minute crystals. It is purified by solution and crystallisation from boiling anhydrous alcohol, when the alkaloid will be obtained pure and colourless. The alkaloid, which has been named solnine [*solcarine* would be better], is in white, brilliant crystals (fig. A), and is practically insoluble in water. It dissolves freely in dilute acids, forming very soluble salts, which are acrid and bitter, leaving a persistent tingling sensation on the tongue. The salts have not yet been crystallised. It is very soluble in cold chloroform and in boiling alcohol; from the latter it separates on cooling in large needle-like crystals resembling hydrastine; from ether by evaporation it remains as a glassy residue. It is precipitated in minute crystals from alcoholic solution by the addition of water. It yields ammonia on heating with caustic potash.

On evaporating the mother-liquor spontaneously, no other alkaloidal crystals appeared until it had been reduced to a thin layer, when a crop formed of the general appearance (fig. B). The fact that such an interval of time and alcoholic evaporation separated the two crops of crystals, as well as their general appearances, led to the surmise that they might be different substances and of distinct systems. It may be that the alkaloid is identical with one obtained by Mr. G. A. Krauz from the plant, which he identified as solanine, but the measurements and formation of the crystals of solnine do not support that suggestion. On this matter, however, see the *American Journal of Pharmacy* for April. Mr. Lloyd gives no analytical data, but has given a supply of his alkaloid to Professor Henry Trimble, who will doubtless establish whether the alkaloid is a new one or not.

WILLS OF DECEASED CHEMISTS.

The will of Mr. John Frederick Golding, chemist and druggist, of 172 Albany Street, Regent's Park, who died on December 21, 1893, has been proved by the executors, Mr. Robert Ford Hunger, stationer, of 310 Euston Road, and Mr. Frank Walmsley Warrick, merchant, of 18 Old Swan Lane. The value of the personal estate and effects amounts to 722*l.*, and no more.

The will, dated September 14, 1877, of the late Mr. Samuel Boyd, J.P., chemist and druggist, of Dublin, who died on January 14, in his 72nd year, has been proved in Dublin and resealed at the Principal Probate Registry, London. The testator leaves to his daughter, Matilda Eveleen, 2,000*l.*, and bequeaths the residue of his property to his widow, Mrs. Jane Boyd, for life (whom he appoints his sole executrix), with remainder to his children. The value of the personalty in England and Ireland amounts to 53,000*l.*

The will of Mr. Henry Ayscough Thompson, of 22 Worship Street, Finsbury Square, and Elmfield, Potter's Bar, wholesale druggist, who died on March 9, has been proved at the Principal Probate Registry by Mrs. Rebecca Thompson, of Elmfield, the widow, Mr. Thomas William Thompson, and Mr. Henry Ayscough Thompson, of The Firs, Potter's Bar, wholesale druggist, sons of the deceased. The gross value of the personalty of the testator amounts to 11,841*l.* 9*s.* 9*d.*, and the net value to 9,875*l.* 17*s.* 6*d.* The testator bequeaths to his widow, Mrs. Rebecca Thompson, 200*l.*, and his horses, carriages, wines, plate, furniture, and household effects, absolutely, and gives her the right to continue to occupy his residence. The residue of his property, real and personal, he leaves in trust for her benefit for life, with remainder to his three children equally, but testator stipulates that the capital in the business he carried on with his son, Henry Ayscough Thompson, may be retained by the latter in the said business during the life of testator's widow, and for ten years afterwards, when it may be withdrawn by annual instalments.

Mr. Charles Boorne, pharmaceutical chemist, late of the firm of Ferris & Co., Bristol, who died at his residence, Dalston House, Clifton, Bristol, on November 2, has left gross personal estate amounting to 14,096*l.* 8*s.* 6*d.*, the net value chargeable for probate-duty being sworn under 13,900*l.* The testator, by his will, dated November 23, 1886, appointed his wife, Mrs. Maria Louisa Boorne, his executrix, and Mr. John Heelas, jun., of Reading, and Mr. Charles B. May, of Marlborough, his executors, and to the two latter bequeathed 30*l.* each. To his widow testator left 100*l.* immediate legacy, and his plate, pictures, books, jewellery, furniture, and household effects. To his executors in trust he leaves the sum of 1,000*l* for each of his five daughters and for his son Herbert Edward Boorne. Having advanced his son William Hanson Boorne 900*l.*, testator does not leave him a legacy, but directs his promissory notes to be destroyed. The residue of his estate, real and personal, the testator leaves for the benefit of his widow, with remainder to his children in equal shares. By a codicil, of October 4, 1893, the executorship of Mr. May is revoked, and testator appoints his son, Mr. Herbert Edward Boorne, chemist and druggist, of 44 Apsley Road, Clifton, in his place. To him and to his mother administration of deceased's estate has been granted, Mr. John Heelas having renounced probate.

Practical Notes and Formulæ.

GLYCERINE JELLY.

THE following directions are given in the *Pharmaceutische Zeitung*:—Soak 2 drachms of gelatine in 6 fl. oz. of rose water, and then liquefy by applying heat. To the somewhat cooled liquid, before solidifying, add 5 drachms of albumen, again apply heat to coagulate the albumen. In the perfectly clear liquid dissolve 12 grains of salicylic acid, add 5 fl. oz. of glycerine, and strain or filter on a hot-water funnel. Pour into wide-mouthed bottles and allow to solidify.

DEODORISED ALCOHOL.

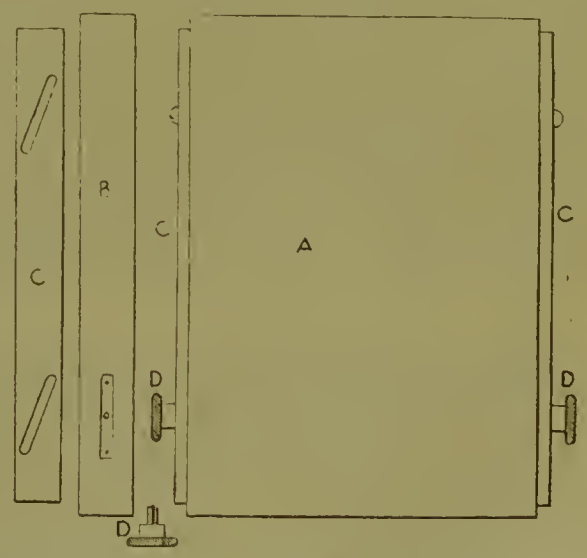
IN the United States and Canada, where highly-rectified spirit does not seem to be a commercial article, deodorised alcohol is often prescribed, especially for preparing perfumes. It may be prepared as follows:—

Spirit	1 gallon.
Powdered quicklime	4 drs.
,, alum	2 drs.
Sweet spirit of nitre	1 dr.

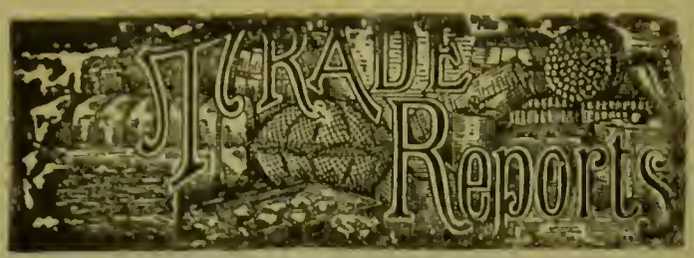
Mix the lime and alum, add the alcohol, shake well and add the spirit of nitre. Set aside for a week, and filter through animal charcoal.

LOZENGE APPARATUS.

AT a recent meeting of the Philadelphia College of Pharmacy, Mr. Wallace Procter, Ph.G., described an apparatus which he has devised for making lozenges on the small scale or extemporaneously. This is illustrated in the engraving where A is the board, seen from above, B a side view of the same. CC slides in place. C a slide detached to show the slots, the front one should be ruled to divisions of the 32nd of an inch. D the set-screws, one in place and the other detached. The board is made preferably of a piece of well seasoned hardwood, $1\frac{1}{2}$ inch thick, 10 inches wide, and 14 long, planed perfectly flat, and both sides and ends made square and true—at each side about three inches from one end a plate is let in flush, and tapped with a screw; on each side a plate of brass $1\frac{1}{2}$ inch wide, 14 long, and $\frac{1}{8}$ inch thick is fitted; each plate has two slots, crossing the plate diagonally, $\frac{3}{8}$ inch from each edge; these slots



must have exactly the same slope, and through one slot of each plate a square-shouldered screw passes and is screwed in until it presses the plate close to the side of the board but still permits it to move easily; through the other slot in each plate a set-screw passes and enters the screw-plate before-mentioned; when the plates have been adjusted to a given height, the set-screws are turned until they prevent any motion of the plate. After the lozenge mass has been prepared it is weighed and the weight is then divided by the number of lozenges ordered; the mass is made of the desired thickness by the operator, the cutter applied, and, if the weight agrees with that ascertained by dividing the entire quantity, the work proceeds at once, but if too heavy the guides are lowered, or if too light they are raised until the proper weight is attained.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

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42 CANNON STREET, E.C., *May* 31.

New York Cable Message.

Our New York correspondent, telegraphing on Wednesday, May 30, observes:—*Hydrochlorate of cocaine* has suddenly declined to $5.25 per oz., owing to advices announcing the rupture of the combination abroad. American *Oil of peppermint* (HGH) is very firmly held, but no business is being transacted in the article at present. *Golden seal root* is very firmly held at 21c. per lb, and Mexican *Sarsaparilla* also maintains its value firmly at 8½c. per lb.

The Liverpool Market.

Our Liverpool correspondent, writing on May 29, says that *African ginger* continues flat, at 36*s.* per cwt. for sound root. The demand for *Sierra Leone chillies* is sustained, and good bright reds are realising 30*s.* to 32*s.* 6*d.* per cwt.; stocks are now much reduced. The *Acacia gum* market continues steady. *Soudan sorts* are firmly held, and a little progress has been made at 40*s.* to 43*s.* 6*d.* per cwt. for fair to good quality. *Canary-seed*: Fifty bags fine bright seed sold at 37*s.* 6*d.* per qr., and there are further sellers at the price. Notwithstanding the arrival of 1,626 cases of *Calcutta castor oil* by the *Barrister* (s.), the market has assumed a decidedly firmer tone, and though there are sellers at 2⅛*d.* ex quay not much is to be had at the price—an advance is looked for by all holders. There has been a movement in *Chilian* honey, several parcels changing hands at prices which are advances on late rates—pile 2, 24*s.* 6*d*; pile I, 28*s.* to 30*s.*; and X., 35*s.* per cwt. *Chilian beeswax* has met with a ready sale, all offering being bought at prices ranging from 7*l.* 16*s.* 9*d.* to 8*l.* 10*s.* per cwt.

The Amsterdam Market.

Our Amsterdam correspondent writes, on May 24, that the cinchona-bark sales to be held in his city on June 14 will consist of 392 cases and 4 271 bales, or about 411 tons of Java cinchona, divided as follows:—From Government plantations, 79 cases and 425 bales, about 44½ tons; from private plantations, 313 cases and 3,846 bales, about 366½ tons. This quantity contains of *Druggists' bark*—Succi rubra quills, 284 cases; broken quills and chips, 72 bales and 98 cases; root, 10 cases. Of *Manufacturing bark*—Ledgeriana broken quills and chips, 3.134 bales; root, 439 bales. Hybrids broken quills and chips, 523 bales; root, 93 bales. Officinalis broken quills and chips, 5 bales.

The American Markets.

Our New York correspondent, writing on May 21, states that advices from various parts of the country indicate a falling off in the spring trade, thought not to the extent that might be expected, considering the general depression from which the country suffers. The turnover is estimated to be about 20 per cent. below that of an average season in value, though nearly the same in volume. *Acid oxalic* is lower again, and a round lot has been seeking buyers at 6*d.* net cash ex dock. Large stocks appear to weigh heavily on the market. *Acid Citric*: Manufacturers have reduced the price 1c. per lb. to 41c. in kegs, and 40½c. in barrels, less 2 per cent. discount for cash. *Ammonia muriate, granular*, is strengthening in value—due to higher advices from abroad—and prime white is now held at 6¾c. *Balsam copaiba* is in moderate demand, and prices steady, at 32c. for Central American, 35c. for Pará, and 39c. to 40c. for Angostura. *Balsam Peru* has further advanced, and $1.85 is now the inside quotation. Some holders are not disposed to shade $2. *Balsam Fir* (*Canada*): Under the influence of favourable crop reports the market continues to rule easy, and purchases can be made at $3 per gallon in barrels. *Balsam Tolu* is steady, with no disposition on the part of holders to force business; quotation: 24c. for large, and 24½c. to 25c. for 10-lb. tins. *Beans, tonca* (*Angostura*), continue to harden in value. From first hands $1.90 is named, though some small lots are offered by jobbers at $1.80 to $1.85. *Vanilla* is steady at the advance noted last week. It is reported that the Mexican Government has passed a Bill placing an export duty of 45c. per kilo. on vanilla. *Cascara Sagrada*: The arrival of the *R. D. Riel* from San Francisco with 375 packages does not appear to have had any influence on prices. Some portion of the lot was sold previous to arrival, and goes into consumption; the balance is firmly held at 5c. *Damiana-leaves* rather quiet, with a slightly easier feeling; quoted 11c. to 12c. The *R. D. Riel* brought 37 packages. *Ergot of Rye* is disappointing to holders, who have been hopeful of an advance. German is offered at 21c. to 21½c., and Spanish 24c. to 25c. *Gum Chicle* is offered more freely, and prices are a trifle easier at 25½c. to 26c. The *Orizaba* from Mexican ports had 849 bales. *Gum Kino*: The high prices have brought out some surplus stock in the hands of dealers throughout the country, a lot of whole and powdered being recently offered at $1 per lb. in this market; $1.15 to $1.20 is asked for jobbing quantities. *Hellebore-root* (*White*): The season opens with an active demand from all sections of the country. Pure powdered quoted at 6½c. in barrels, and whole root at 4¼c. to 4½c. *Honey, Californian*: Unfavourable crop advices and an advance of ¾c. per lb. in California were reflected by a higher range of values in this market. The principal holders here refuse to shade 6¼c. *Jalap*: A bid of 18c. was solicited for a lot of prime root, but buyers appear to show little interest in the article. From primary sources it is reported that the bulk of this season's crop has been shipped, and the market from this out is not likely to be influenced by large arrivals. *Lycopodium* is easier at 52c. to 52½c. The *Russia* from Hamburg had 30 cases included in her manifest. *Manna* shows signs of improvement. All the available stock of small flake at 28c. has been taken up, and there is now nothing to be had below 29c., with 30c. generally demanded. Large flake is also higher at 72½c. *Menthol*: Although reported higher abroad, the tone of the market does not improve, supplies being offered at $4.50. *Norwegian Cod-liver Oil* has again stiffened up a trifle, and sales have been made at $26 on the spot. The demand at present is very light, and likely to continue so during the summer months. *Olive Oil* (*Malaga*) declined to 55c. for yellow and 57c. for green. *Oil, cotton-seed*: The market is quiet, though firm, prime grades being held with more confidence. Winter yellow, 36c.: summer yellow, 33c. to 34c.; and winter white, 37c. to 38c. In *Oil of Peppermint* there is no business of importance to note, the demand being extremely light. Quotations are nominally unchanged at $2.80 to $2.85 for HGH, $2.30 to $2.35 for Western, and $2.40 to $2.45 for Wayne Co. *Potash bichromate*: A further reduction to 9½c. is noted, being due to continued competition. *Potash, Yellow Prussiate*: Some outside lots which had been hanging over the market are mostly absorbed, and prices are working towards a higher basis, 22c. being now asked. *Serpentaria-root* is now offered at 29c. *Sarsaparilla* (*Mexican*): As a result of further concentration of stocks the price has been advanced to 8¾c. The *Orizaba* from Mexican ports brought 20 bales. *Senega* is steady with only a moderate demand, and prices unchanged at 37c. to 38c. Large operators take little interest in the market at present. Twenty-seven bales went forward by the *Bohemia* for Hamburg. *Spermaceti* is firmly held at the recent advance. Refiners refuse to shade 29½c. Stocks are rather light, but business is restricted by the high views of holders. *Wax* (*Carnauba*): Recent arrivals, together with reports of considerable quantities afloat, have resulted in a shading of

prices, and prime quality can be obtained at 20c., and down to 15c. for less desirable grades. *Morphia* is lower, in sympathy with opium. Powers & Weightman have reduced their prices to $2 for bulk, $2.5 for ounces.

The Hamburg Market.

Our Hamburg correspondent, writing on May 29, observes: "The drug-market is still in a dull state and little alteration has taken place since last week. There is a general complaint of slackness of trade and many industrial establishments are reducing their staffs. There have been few fresh arrivals of drugs. The *Herodot* landed 1,511 sacks of borax, and 133 casks of iodine from the west coast of America. The quotations are on an average the same as last week, B.P. *Balsam peru* still being scarce. *Cevadilla seed* has dropped, being offered to-day at 160m. per cent kilo. *Oil of Cajuput* is quoted 2 35m. per bottle, and *S.V.R.* has gone up to 17·62½m. per 100 litres, at 100 per cent. *Saltpetre Chilian* is also 1m. per 50 kilo. dearer, being quoted to-day at 10·50m. per 50 kilo. *Norwegain Cod-liver oil* has fallen in price, and is offered at 37m. per Norweg. ton. The same applies to *Newfoundland oil*, which can be bought at 51m. per 100 kilo. *Linseed* is quoted at 185m. per ton, and there is a plentiful supply. *Anise* (*Alicante*) at 44m. *German* at 28 and *Russian* at 23.50m. per 50 kilo. Bank discount remains at 3 per cent."

The Manchester Market.

Our Manchester correspondent writes, on May 30, that the volume of business in chemicals continues to be unsatisfactory. For *Caustic soda* there is only a moderate inquiry, and prices, though nominally unchanged, have lately been on the easy side. *Bleaching-powder*, however, is quite firm in price, and, indeed, is in rather short supply for early delivery; but the exports continue to decline, as compared with last year. *Ammonia alkali* is steady in price at 65*s.* per ton, but has only a moderate inquiry. *Soda crystals* and *Bicarbonate of soda* are dull. In the *Tar products* branch it may be noted that *Pitch* has latterly been fetching rather better prices, and is firm for the moment; *Solvent naphtha* also has a rather better inquiry; in *Creosote* there is very little doing, and *Benzoles* also are quiet; and *Carbolic acids* are dull for the time of the year. *Acetates of lime* have more inquiry, but *Acetates of lead* are dull, and acetate of soda is neglected, although very cheap. *Sulphate of copper* is offered at lower prices for delivery a little ahead. *Oxalic acid* is quiet, but steady.

The Adulteration of Otto of Rose.

Our correspondent in Bulgaria writes:—"Up to the present moment no further action has been taken with regard to the Bill against the adulteration of essential oil of rose, of which I gave you full particulars a few months ago. The *Sobranje*, or National Assembly, does not meet again until October 15 next, and consideration of the measure stands necessarily deferred until after that date. In the meantime, however, the Minister for Commerce and Agriculture has instructed two professors of chemistry at the University of Sophia, Messrs. Raykoff and Tscherwen-Ivanoff, to proceed to the manufacturing districts during the present distilling season for the purpose of making a series of analyses of old and new samples of oil."

ACETANILID is reported to be slightly dearer; some time ago it was being offered at 1*s.* 4*d.*, now 1*s.* 5*d.* per lb. is asked.

ACID (CARBOLIC).—There has been no alteration in the quotations, although it is reported that the tendency is slightly firmer.

ACID (CITRIC).—Unaltered, at 1*s.* 3*d.* per lb. on the spot; concentrated juice is quoted at 14*l.* f.o.b.

ACID (SALICYLIC).—Listen to an agent's warning:—"As to the future of the salicylic market, it is premature to form any opinion, and it will, therefore, be advisable for contractors to keep their stocks low, so as not to exceed one month's requirements." This sentence, which we quote from a private report now in the press, seems to indicate thunderclouds ahead in the salicylic sky.

ACID (TARTARIC).—The inquiry has lately been slightly better. English brands are quoted from 10¾*d.* up to 11*d.*, foreign from 10⅜*d.* to 10½*d.* per lb. We understand that some Italian tartaric-acid has recently been offered here, at 10⅛*d.* per lb. *Argols* are much lower. At auction on Tuesday 170 packages *Cape* argols sold at 34*s.* to 40*s.* per cwt. for dusty grey, and 30*s.* per cwt. for red.

BISMUTH.—Although, so far as we can gather, there has been no alteration in the price of the crude bismuth, the salts have recently been "cut" below the price at which they have been maintained for a long time by all the manufacturers. Some time ago *Subnitrate*, the leading salt, was quoted by all the makers at 7*s.* 3*d.*, at which we believe it is still listed. Gradually, however, orders were taken at lower figures—it is said as low as 7*s.* per lb.; and within the last few days a German manufacturer has been cutting the price even below that quotation. There are indications that the margin of profit of this salt has now been very nearly reached.

BORAX.—The following figures relate to the exports of borates from Leghorn during the last eight years. The figures represent tons weight:—

—	1886	1887	1888	1889	1890	1891	1892	1893
Boracic acid ..	3,004	2,832	1,181	1,912	2,023	1,914	1,489	1,262
Borax and borate of soda	310	478	503	881	744	617	716	850

It will be noticed that, while the export of boracic acid has considerably declined, that of borax and borate of soda has as steadily increased. The principal reason for the change is that the producers of the acid have found it profitable to convert it into borax for shipment abroad. Several firms in Turin and Florence are also engaged in similar business. Nevertheless, there can be no doubt that the competition of South American and Asian borates is seriously affecting the demand for the Tuscan acid. It is only by continuing to undersell their competitors that the producers in Italy of the native acid can hope for the maintenance of their business.

CAMPHOR (CRUDE).—A stationary market. The current quotations are as follows:—*Chinese*, on the spot, 70*s.*; for June–July shipment, 65*s.*, c.i.f. *Japanese*, on the spot, 90*s.*; for June–July shipment, 85*s.*, c.i.f.

CAMPHOR (REFINED).—The prices of the English and German makers are the same, both being on the basis of 1*s.* 4½*d.* per lb. for half-ton lots. A steady business is reported to be doing in the article.

CHLORATE OF POTASH.—The United Alkali Company (Limited), referring to the use of the word "official" in our paragraph on chlorate of potash in last week's issue, say that they have made no reduction in their price, which remains 7¼*d.* per lb. both for prompt and forward delivery. The use of the word "official" in connection with our quotation is therefore incorrect. The other firms who manufacture chlorate of potash in this country are reported to have recently refused a bid of 6¾*d.* per lb., but there are still second-hand sellers at 6¾*d.* per lb. in London.

CINCHONA.—An interval of four weeks having elapsed since the last bark-sales, the supply offered at Tuesday's auctions was unusually heavy. The eleven catalogues comprised a total of:—

	Packages		Packages	
Ceylon cinchona	703	of which	573	were sold
East Indian cinchona	1,817	,,	1,437	,,
Java cinchona	131	,,	53	,,
West African cinchona ..	288	,,	288	,,
South American cinchona ..	115	,,	58	,,
Cuprea bark	227	,,	72	,,
	3,281	,,	2,511	,,

The commencement of the auction was marked by a very dull tone, and a decline in value of many of the lots sold compared with the last auctions, but gradually the market underwent a distinct improvement, and at the end the result showed an average unit of about ⅞*d.* per lb. Holders generally showed themselves very firm, and a fair proportion of

fine East Indian bark was bought in on that account. One of the chief features of the auction lay in the offering of nearly 400 packages of Ceylon bark imported between 1887 and 1889, the greater part of which was now sold. The total amount of sulphate of quinine represented by the bark offered was about 22,000 lbs. The following are the approximate quantities of bark purchased by the principal buyers:—

	Lbs.
Agents for the Auerbach factory	163,290
Agents for the Brunswick factory	116,998
Agents for the Frankfort-on-the-Main factory ..	66,850
Messrs. Howards & Sons	43,786
Agents for the American and Italian factories ..	36,881
Agents for the Paris factory	20,835
Agents for the Mannheim and Amsterdam factories	19,060
Various druggists	78,743
Total quantity of bark sold	546,443
Bought in or withdrawn	158,079
Total quantity of bark offered	704,522

It should be remembered that the proportion of bark secured by a buyer is no indication of the percentage of the total amount of quinine in the sales represented by his purchase.

The following prices were paid for sound bark:—

Ceylon Cinchona.—*Original*:—Red varieties: Ordinary dusty to good bright quilly stem and branch chips, $\frac{3}{4}d.$ to $1\frac{7}{8}d.$; fair to good stem shavings, $1\frac{5}{8}d.$ to $2\frac{7}{8}d.$; fine chips, $2\frac{1}{8}d.$ per lb. Grey varieties: Ordinary dull to fair stem and branch chips, $1d.$ to $1\frac{5}{8}d.$; fair to good shavings, $1\frac{3}{8}d.$ to $2d.$; good root at $2\frac{7}{8}d.$ per lb. Yellow varieties: Dull stem chips, $1\frac{7}{8}d.$; fair bright branch chips, $4\frac{1}{4}d.$; fine rich shavings, $6\frac{5}{8}d.$ per lb. *Renewed*:—Red varieties: Ordinary to good bright stem and branch chips, $1d.$ to $2\frac{3}{4}d.$; dull to good bright shavings, $1\frac{3}{8}d.$ to $2\frac{3}{4}d.$; dust, $1\frac{3}{8}d.$ per lb. Grey varieties: Dull and dusty to good bright quilly chips, $1\frac{1}{2}d.$ to $3\frac{3}{4}d.$ per lb.

East Indian Cinchona.—*Original*:—Red varieties: Ordinary to good bright rich stem and branch chips, $1\frac{1}{4}d.$ to $4\frac{1}{4}d.$; fair partly thin and irregular partly bold druggists' quill, $2\frac{1}{4}d.$ to $2\frac{3}{4}d.$; shavings, $1d.$ to $1\frac{3}{8}d.$; root, $2d.$ per lb. Grey varieties: Ordinary to fine bright stem and branch chips, $2d.$ to $4d.$; small dull chips, $1\frac{1}{4}d.$ to $1\frac{5}{8}d.$; fine root, $3d.$ to $3\frac{3}{4}d.$; fair bright quill, $2\frac{5}{8}d.$ to $2\frac{3}{4}d.$ per lb. Yellow varieties: Ordinary dull damaged and "cankered" shavings, $1\frac{3}{4}d.$ to $2d.$; good bright stem shavings, $3\frac{1}{4}d.$ to $3\frac{3}{4}d.$; ordinary to fine bright stem and branch chips, $2\frac{1}{2}d.$ to $5\frac{5}{8}d.$; fine root, $6\frac{1}{2}d.$ per lb. Hybrid shavings, $1\frac{1}{2}d.$ per lb. *Renewed*:—Red varieties: Ordinary dusty to good bright chips and shavings, $1\frac{1}{4}d.$ to $2\frac{1}{4}d.$ per lb. Grey varieties: fair to fine bright stem and branch chips, $2\frac{5}{8}d.$ to $4\frac{3}{4}d.$ per lb. Yellow varieties: Ordinary to fine bright shavings, $1\frac{3}{8}d.$ to $4\frac{5}{8}d.$; fair to fine chips, $3\frac{3}{4}d.$ to $5d.$ per lb. Nearly the whole of the East Indian and Ceylon bark bought in at the auctions was disposed of privately later on in the same day.

Java Cinchona.—Of 131 bales yellow bark (Ledger) 53 sold at $4\frac{3}{4}d.$ for good root, $2\frac{1}{2}d.$ for siftings, and $1\frac{3}{8}d.$ per lb. for quilly chips.

West African Cinchona.—A parcel of 288 packages of West African cinchona, recently imported *via* Lisbon, sold at $3d.$ per lb. for partly dull, hard, coarse open *Succirubra* quill, $2\frac{1}{4}d.$ to $2\frac{7}{8}d.$ per lb. for fair bright ditto, and $1\frac{5}{8}d.$ to $2d.$ per lb. for chips.

South American Cinchona.—The auctions comprised 115 bales of cultivated Bolivian *Calisaya* quill, of which 58 sold at $4\frac{1}{4}d.$ per lb. for fair bright quill, and from $3\frac{1}{4}d.$ to $4d.$ per lb. for damaged bark.

Cuprea Bark.—The old familiar parcels of cuprea bark of 1882–3 imports were duly offered once more on Tuesday, and once again the bark was bought in at nominal rates. Seventy-two bales however (partly damaged) sold at from $\frac{3}{4}d.$ to $1\frac{3}{8}d$ per lb.

The exports of cinchona bark from the port of Guayaquil (Ecuador) amounted to 31,800 lbs. (value 954*l*) in 1892, and to 67,500 lbs. (value 2,025*l*.) in 1893.

The following figures show the exports in half kilos. of cinchona bark from Java in the nine months from July 1 to March 31:—

—	1889-90	1890-1	1891-2	1892-3	1893-4
Private plantations	4,871,188	5,322,003	5,811,278	5,348,211	3,377,432
Government plantations	385,258	473,714	515,352	450,212	445,940
Total ..	5,256,446	5,795,717	6,326,630	5,798,423	3,823,372

Cloves.—*Zanzibar* cloves remain very flat. Sea-damaged quality sold at auction, on Wednesday, at $1\frac{7}{8}d.$ to $2d.$ per lb. For dark to good *Seychelles* cloves $2d.$ to $2\frac{3}{4}d.$ per lb. was paid, and picked *Penang* realised $6\frac{1}{2}d.$ per lb. For delivery a fair amount of business has been done at from $2\frac{3}{32}d.$ to $2\frac{1}{8}d.$ per lb. for July–September.

Cocaine.—There has been no further change in the price since the last reduction. A big business is said to have been done in crude cocaine lately, and the importers are now inclined to ask somewhat higher rates. In *hydrochlorate*, also, there have been fair transactions at the recent reduction.

Condurango.—Very little condurango bark was exported from Guayaquil (Ecuador) in 1893. The total shipments in that year only amounted to 44,600 lbs. (value 558*l*.), while in 1892 they were 194,300 lbs. of the value of 3,400*l*.

Continental Drugs.—The following are some of the current quotations of continental drugs (leaves, herbs, roots, and flowers), "c.i.f." London terms:—Arnica-flowers, 36*s*.; elder-flowers—finest, 74*s*., second quality, 42*s*.; marshmallow flowers—finest, 60*s*., second quality, 46*s*.; aconite-leaves, 24*s*.; arnica-leaves, 15*s*.; belladonna-leaves fine, 43*s*., second quality, 32*s*., digitalis, 22*s*.; henbane, 25*s*.; savin, 10*s*.; stramonium, 25*s*.; aconite-root, 34*s*.; marshmallow-root—good to fine, 50*s*. to 55*s*., fair, 41*s*. to 45*s*., common, from 23*s*. to 30*s*.; alkanet-root, 28*s*.; angelica—finest, 62*s*., good, 58*s*., ordinary, 49*s*.; arnica-root, 45*s*.; belladonna-root, 22*s*.; calamus—picked, 25*s*. 6*d*., common, 16*s*.; taraxacum, 24*s*.; colchicum, 29*s*.; male fern, 12*s*.; hellebore, 23*s*.; pyrethrum, 44*s*.; tormentilla, 26*s*.; colchicum-seed, 34*s*.; stavesacre-seed, 45*s*. per cwt.

Coriander-seed.—At auction, on Wednesday, 35 bags of coriander sold, without reserve, at from 32*s*. 6*d*. per cwt. for good, down to 24*s*. per cwt. for ordinary quality.

Cream of Tartar is dull of sale, 62*s*. 6*d*. per cwt. being quoted for best white *French* crystals, and 64*s*. to 64*s*. 6*d*. per cwt. for powder.

Cubebs.—The exports of cubebs from Java during the nine months from July 1 to March 31 have been:—

	1889-90	1890-1	1891-2	1892-3	1893-4
Piculs ..	1,055	2,192	1,184	884	742

Galls.—There is no demand whatever for Smyrna or Bassorah galls at present, excepting for green Bassorahs, of which sales have been made at from 45*s*. to 47*s*. 6*d*. per cwt. according to quality, which shows a slightly easier market. *China* galls are offering, for April shipment, at 41*s*. 6*d*. per cwt., c.i.f. terms. On the spot 43*s*. to 44*s*. per cwt. has been paid for good *China* galls.

Ginger.—At this week's auctions *Jamaica* ginger was in very large supply, no less than 1,274 barrels being offered. About two-thirds of this quantity sold at from 1*s*. to 3*s*. per lb. decline for ordinary and medium rates, but fine qualities brought very full prices. Fair Ratoon brought 57*s*.; small brown scraped, 58*s*. to 60*s*.; low to good bright medium, 62*s*. 6*d*. to 70*s*.; good to fine, 71*s*. 6*d*. to 86*s*.; and fine bright bold selected 93*s*. to 114*s*. per cwt. *Cochin* ginger is flat, and about 2*s*. lower on the week. At auction 230 bags sold at 45*s*. for good small lean rough (D); and 48*s*. to 48*s*. 6*d*. per cwt. for fair small and medium washed rough.

Guaiacol.—*Absolute* guaiacol has been reduced to 13*s*. 6*d*. per lb., *Carbonate* is being offered at 64*s*. per lb.

Gum (Acacia).—Business in *Soudan* sorts has been done at from 37*s*. 6*d*. per cwt. for dark hard dull up to 52*s*. 6*d*. per cwt. for fine soft pale; the prices generally are easier.

Good quality of *Jeddah Amrad* has found buyers at 29*s*. *Ghezira* gum is scarce and nominally quoted at 35*s*. So-called insoluble *Persian* gum is also tending downwards; the quotations are now from 21*s*. to 23*s*. for pale selected, 16*s*. to 20*s*. for fair sorts to good pale, and downwards to 7*s*. per cwt. for common blocky. In 1893 acacia gum was the chief article of export from Suakin. The value of the shipments amounted to 56,855*l*., against 43,796*l*. for the year 1892. It was not, however, a profitable season (says the British Consul at Suakin), as prices in Europe were uniformly low. The greater part of the gum was purchased by Suakin merchants on commission, as they lost too heavily in 1892 to risk their capital again by purchasing on their own account.

GUM (MASTIC).—Fine new quality has recently been sold at 2*s*. 2*d*. per lb.

GUM (TRAGACANTH).—The market is very quiet, and little business can be reported; fine white first *Persian* gum is held at 12*l*. 10*s*.; seconds, at from 11*l*. 5*s*. to 12*l*. In *Smyrna* tragacanth there has been no business; firsts are nominally quoted at from 13*l*. to 14*l*.; good seconds, at 11*l*. to 11*l*. 5*s*.

INSECT-FLOWERS.—The present prices are very moderate, and, but for the absence of the usual American orders, there would probably have been an upward move already. Open flowers are offered at 48*s*. per cwt., c.i.f.; half-closed, at 60*s*. 6*d*. to 72*s*. 6*d*. per cwt., c.i.f., according to quality; closed flowers, at 111*s*. per cwt., c.i.f. terms. The new crop is now arriving on the Trieste market, but the flowers are not yet fit for shipment.

MENTHOL.—Firm; the lowest spot price at which purchases could be made is now 17*s*. 6*d*. per lb. We do not hear of anything being offered for shipment, and it is said that all the parcels which were afloat have now been received, and that there is nothing on the way at present.

MORPHIA.—Manufacturers are asking 4*s*. 9*d*. per oz. for powder, but would probably be disposed to accept 3*d*. less. The price of *Codeia* is being cut by one of the makers.

OIL OF CHAULMOOGRA is represented to be getting scarce on the spot, 2*s*. per lb. is quoted as the price.

OIL (COD-LIVER).—Business continues to be practically at a standstill in this market, although we are informed that small orders have recently been executed for American account. The Finmarken fishing is expected to terminate this week, when the official statistics concerning the catch will be published. For fine new non-congealing Lofoden oil (1894) the quotation in London is 120*s*. per barrel. Finmarken oil offers at 85*s*. per barrel. For good *Newfoundland* oil 3*s*. per gallon is asked.

OILS (ESSENTIAL.)—The information (dated April 26) received from China with regard to essential oils is to the effect that there are no supplies of *Star anise oil* left on the Hongkong market, while in *Oil of cassia* no business has been done. The quotations for the last-named article were $160 per picul for oil of 50-per-cent. aldehyde, $170 for 60–70 per cent. and $190 for 70–75 per cent oil. *Sandal-wood oil* is now very low in price; English-drawn may be had at 14*s*. 6*d*. per lb. *Oil of cubebs*, which was quoted at 7*s*. per lb. by some of the English distillers, has been reduced by them from June 1 to 6*s*. 9*d*. per lb. *Oil of cloves* has also been reduced 1*d*. per lb. by some makers, 2*s*. 4*d*. per lb. being now the price for English. *Citronella oil* is quoted on the spot at 1*d*. per oz. for bottles, and 11*d*. per lb. for tins; to arrive tins are offering for early shipment at 9*d*. per lb., c.i.f., and drums at 9¼*d*. to 9⅜*d*. *Lemon-grass oil*, fair native quality, may be had on the spot at 1⅞*d*. per oz. *Oil of star-anise*: Firmly held at 6*s*. 5*d*. on the spot, and offering at 6*s*., c.i.f. term, for October–December shipment. *Oil of cassia*, of good quality, is offering at 3*s*. 3*d*. to 3*s*. 4*d*. on the spot; 70-per-cent. oil, for June–August shipment, is said to have changed hands at 2*s*. 10*d*. per lb., but now 2*s*. 11*d*., c.i.f., is asked for it. Japanese *Peppermint oil* is stationary, at 11*s*. 3*d*. per lb. for 40-per-cent. oil—but perhaps 11*s*. would be accepted—and 10*s*. per lb. for dementholised oil on the spot. The quotations for prompt shipment are: 40-per-cent., 11*s*. to 11*s*. 3*d*., c.i.f.; dementholised, 9*s*. 6*d*., c.i.f. There have this week been heavy arrivals of Italian *Oil of lemon*, consisting mostly of the parcels which were recently sold at low prices, the quotation for this same brand is now 3*s*. 3*d*. but a bid of 3*s*., f.o.b., would still be submitted. American *oil of peppermint* is unaltered, HGH being still quoted at 11*s*. 7½*d*. per lb. A telegram has been received to-day by one of the American agents announcing great floods in Wayne County, and serious damage to the peppermint plants.

OPIUM.—The market is becoming demoralised, with the exception of *soft shipping* opium, which continues to be fairly steadily held, although there is no demand. Good to fine is quoted at 11*s*. 6*d*. to 12*s*.; druggists' and manufacturing kinds, however, may be had at easier rates, many holders being very anxious to sell. Good to fine *Smyrna* is quoted at from 7*s*. 6*d*. to 10*s*. 6*d*.; *Druggists'* seconds at 8*s*. 6*d*. to 9*s*. 6*d*. per lb. *Persian* opium is also lower, at from 9*s*. to 11*s*., according to quality. We refer in an Editorial note to the general position of the opium market. Our Smyrna correspondent observes, with regard to the business transacted upon that market in the week ending May 25:—The downward movement pursues its course. Ten cases *tale quale* opium have been sold for export to England and 22 cases for the States at the rate of 8*s*. per lb. The market is weak, and if the reigning *malaise* continues, an order limited at 7*s*. 8*d*., which is on the market now, will no doubt find a taker.

OTTO OF ROSE.—Up to the present time nothing is known in London about the distillation, which ought now to be in progress in Bulgaria. The general expectation of dealers is that the prices will undergo a considerable reduction, but one of the principal distillers writes that it does not look as if the crop were going to be a very large one, and at present there is nothing to indicate any prospective lowering of the quotations.

PILOCARPINE.—The present wholesale price of pilocarpine is from 110*s*. to 113*s*. 6*d*. per oz. Nothing is to be had below those figures, and the general opinion is that the firm who reported that they had, last week, effected a sale 68*s* per oz. have been "picked up." We hear that small sales were made, this week, at 100*s*. per oz.

QUASSIA.—The slight excitement which occurred in the market about ten days ago has proved of an ephemeral character, no further business having taken place this week. Recently-imported logs are offering at the rate of 6*l*. 15*s*. to 7*l*. per ton.

QUICKSILVER.—Very firm, the importers' official price is still 6*l*. per bottle, and business has been done in second-hand yesterday at 5*l*. 19*s*. 6*d*. per bottle. The exports of Italian quicksilver from Leghorn in 1893 amounted to 4,620 cwts., valued at 41,791*l*., against 5,115 cwts. (value 45,710*l*.) in 1892.

QUININE.—It is stated that a few days ago a small business was done in second-hand German bulk at 11*d*. per oz.; and it would certainly be possible, we think, to buy at that figure at present. The manufacturers have lately received several inquiries pointing to the existence of a report that they are about to drop their official quotations. We are informed by one of the leading makers that he and his colleagues are as firm as ever, and have no intention of dropping their prices. These are now as follows:—*Howard's*, in tins, 1*s*. 2*d*. to 1*s*. 3*d*.; in bottles, 1*s*. 3*d*. to 1*s*. 4*d*.; *Whiffin's*, in tins, 1*s*. 1*d*.; in bottles, 1*s*. 3*d*.; *Pelletier's*, in bottles, 1*s*. 5*d*. to 1*s*. 5½*d*.; *Fabbrica Lombarda*, in bottles, 1*s*. 3*d*.; in tins, 1*s*. 1*d*.; *Brunswick*, *Mannheim*, *Auerbach*, *Zimmer* and *Jobst*, in tins, all 1*s*. 1*d*. per oz.

SAFFRON is very low in price at present, best Valencia may be had at from 19*s*. 6*d*. to 20*s*. per lb.

SCAMMONY.—There has been some demand lately for fine firsts, at 21*s*. per lb.; seconds are quoted at from 15*s*. to 18*s*.; thirds at 10*s*. to 18*s*., but there is no inquiry for this description.

SODA (HYPOSULPHITE) has become extremely scarce, the spot supply being almost exhausted. The price for kegs has advanced from 110*s*. to 112*s*. 6*d*. up to 120*s*. per ton, landed terms. The spring demand for photographic purposes has been unusually strong.

STAR ANISE.—Reports from China, dated April 26, say that on that date 500 piculs of seed of last year's crop were still on hand. They were being offered at from $33 to $32½ per picul, without, however, finding any buyers.

WAX (JAPAN).—Small sales have been made on the spot at 33*s*. per cwt.

Correspondence

Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

Infamous Advertising.

Sir,—By order of the General Medical Council, I am directed to communicate to you the following resolution, passed by the Council on May 28, with a request that you will call attention to it by some leading article or otherwise, in a prominent position in your journal:—

> That the attention of the Council having been called to the practice of advertising by certain dentists, it is hereby resolved that the issue of advertisements of an objectionable character, and especially of such as contain either claims of superiority over other practitioners, or depreciation of them, may easily be carried so far as to constitute infamous or disgraceful conduct in a professional respect.

Yours faithfully,
W. J. C. Miller,
Registrar.

General Council of Medical Education and Registration of the United Kingdom,
299, Oxford Street, London, W., May 30.

Creosote or Creasote.

Sir,—As a contributor to the etymology of the word 'creosote,' I send you the following, to wit:—"Creosote, lit., 'flesh-preserver'—Gk. κρέως, Attic form of κρέας, flesh, allied to Lat. *caro*, flesh; and σωτ-, base of σωτήρ, a preserver, from σώζειν, to save, preserve."—Skeat, "An Etymological Dictionary of the English Language," 1882.

In his "Concise Etymological Dictionary," 1893, dated 1884, he repeats the above derivation and spelling.

Murray, "New English Dictionary," writes:—"Creosote, modified form of Greek κρεο, combined form of κρέας, flesh + σωζειν, to save: cf. σωτήρ, saviour; the formation was intended to mean 'flesh-saving,' but the Greek for this would have been κρεο(σ)σόος."

The spelling "creosote" is that adopted by Dr. J. S. Billings in the "Index Catalogue of the Library of the Surgeon-General's Office, U.S.A."

The spelling "creosote" is now almost universally used, and came to be adopted soon after the introduction of the drug.

Elliotson in the *Trans. Med. Chir. Soc.* writes in 1835:—"I began my trials of creosote."

Watts, "Dictionary of Chemistry," 1863, writes:—"Commercial creosote," and in the different railway reports we find mention of "creosoted" sleepers.

On the other hand, Pereira in the 1842 edition of his "Materia Medica," writes "creasote": "This substance was discovered by Reichenbach, who termed it *creasote*."

The spelling "creasote" is adopted in the "New Sydenham Society's Lexicon," vol. ii., 1882.

Cassell's "Encyclopædic Dictionary," vol. ii, 1883, spells the word with an "a," following the Pharmacopœias of Great Britain and the U.S.A.

Dr. Knight, writing in 1837 in his well-known "Cyclopædia," spells the word "creasote."

Yours truly,
May 28. George Foy.

Powell's Balsam of Aniseed.

Sir,—It appears, from the report of the annual meeting of the Pharmaceutical Society, which appears in your columns, that the President thought it right to refer to "Powell's Balsam of Aniseed," and to alleged variations in the quantity of morphine contained in it.

As the subject of the sale of this preparation is still under the consideration of the Courts, we should have desired to have refrained from discussing it in the Press; but the widespread publicity given to the President's observations is calculated to cause misapprehension amongst many of our friends and customers.

We beg, therefore, that you will give us the opportunity of stating that our preparation has been made from the same formula for upwards of seventy years without the slightest deviations, and the care in selecting the ingredients, coupled with the careful process used in compounding it, renders the suggested variations absolutely impossible.

The only explanation we can assign for the differences in analyses is that the analyst must have made a miscalculation—a mistake easily made when determining so minute a quantity in an admittedly difficult analysis.

We are, Sir, yours truly,
1 Albion Place, Thomas Powell (Limited).
Blackfriars Bridge, S.E., May 29.

Pharmacy and Irish Politics.

Sir,—Will you permit me, as a "member of his Society in Ireland," to protest most strongly against the action of Mr. William Hayes in introducing politics at the dinner to which he was invited, as President of the Irish Society, by the Pharmaceutical Society of Great Britain?

Yours sincerely,
Dublin, May 27. James C. McWalters.

We have received another protest from a chemist and druggist in Ireland, who contrasts Mr. Hayes's Unionist sympathies with the action of the Irish Council in contesting the right of English pharmacists to compound in Ireland.

Increased Duty on Spirit.

Sir,—After reading the protest in your issue of May 19 of the Burnley chemists, I thought it advisable to embody it in a letter to the M.P. for this district—Ealing, Middlesex—Lord G. Hamilton. I enclose you herewith his reply. In addition to the Burnley protest, I mentioned that the hospitals and dispensaries would also have their expenses increased.

228 High Road, Chiswick, May 29. F. G. Gudgen.

[Lord G. Hamilton says:—"The subject you refer to does require inquiry and investigation. I will look into it."]

Company Pharmacy.

Sir,—I note your remarks to-day on the suggestion to add to the Pharmacy Act Amendment Bill a clause to make "person" include persons, and would like to ask, Is there any chance of Parliament passing such a clause if it be made clear that all persons who by reason of being shareholders in any stores or co-operative society which has a dispensing department, and shareholders in limited companies existing at the date of the passing of the Act, shall not be touched?

Such an arrangement would give no great protection to the trade, but would prevent the evil increasing.

Truly yours,
Whitehaven, May 26. H. (51/15.)

Veterinary Chemists.

Sir,—From the short leader in your issue of a fortnight ago on the above subject it appears that this matter is likely to crop up again. We note with regret the remarks you made concerning the apathy of the trade and the poor support you received when the matter came on for trial. After such a splendid and decisive verdict in our favour (principally obtained through the energetic manner in which you took the subject up), it would be rank cowardice on our part to allow this judgment to be reversed.

As one of the subscribers to the first fund allow us to suggest that, through the medium of your columns, a "Veterinary Chemist" defence fund be started; 100*l.* would

be quite sufficient, towards which we will promise five guineas. Surely there are nineteen others amongst the trade to whom this title is of some value, who will promise the like amount. In all probability not a penny piece of this would ever be required, as, with the above sum guaranteed and a previous verdict against them, the Veterinary College would most likely look before they leap into another failure.

Yours truly,

May 26. B. & S. (51/27.)

[We will ourselves guarantee ten guineas on the condition that 100 guineas in all are guaranteed.—ED. *C. & D.*]

The Pharmaceutical Poet Respondeth.

SIR,—Your pathetic appeal to the poets of the past has awakened in my breast the following response :—

What wonder that drug-burdened ditties decline,
And the pill-punching poet prophetic
His art should abuse, when the fire of his Muse
Can be quenched by a diaphoretic ?

For poesy comes to the mind that ascends,
Or the heart that is wrought by emotions ;
But romance is *nil* in the plaster and pill,
Or eternal compounding of potions !

Though both "poet" and "pilule" begin with a "p"
(There's naught else between them to mention),
So do "prices" and "prose" and old Bolus well knows
They are far better worth his attention.

Though from morning to night he scratches and scrapes,
And his "pestil"-ent mortar he pumbles,
To make up his rent he will have to consent
To do business in jujubes and jumbles.

He watches the Johnnies to town pass his door—
Five hundred a year they are earning—
Till five they will stay, then are done for the day,
And with parcels from "Stores" are returning.

He fags at infusions, on formulæ frowns,
While to tennis go "Tottie" and "Bertie."
But his till never fills with the pennies for pills
From breakfast to P.M. 10.30.

Hornsey. W. F. CLAYTON.

The Rhymes Competition.

SIR,—With due deference to your superior judgment in the difficult task of making selections for the awards of last week, I beg you to understand that :—

Next time I write for luere's sake
I shall enclose to you my eyes,
Lest through your own you may mistake,
And let another have the prize.

FERRUM. (52/16.)

Pharmacopœia Rhymes.

AN EX-APOTHECARY'S ADVICE TO PHARMACEUTICAL POETS.

Hapless the lad whose mind such dreams invade
And win to verse the talents due to trade ;
Curb then, O youth ! these raptures as they rise,
Keep down the evil spirit, and be wise.
Follow your calling, think the muses foes,
Nor lean upon the pestle and compose.

CRABBE—THE NEWSPAPER.

DISPENSING NOTES.

Correspondents should consult "The Art of Dispensing" in regard to dispensing difficulties. Difficulties not explained therein may be sent to the Editor, who invites a general expression of opinion upon the undermentioned topics.

The Clifton Prescription.

SIR,—Your correspondent "F. W. V.'s" prescription is of a type very familiar to Clifton chemists. The atropine is undoubtedly $\frac{1}{480}$ gr. If "F. W. V." thinks otherwise, he must take the consequences of his opinion.

The second preparation is Henry's "Thilum," an ointment for neuralgia, and quoted in the patent-medicine lists.

In point of difficulty the prescription must, I think, yield to the following one by the same doctor :—

Al. aquos extr.	gr. ¼
Arsen. bromidi	„ $\frac{1}{24}$
Phosphori	„ $\frac{1}{80}$
Salol	„ ij.
Tr. gels. semperv.	♏ij.

Ft. pil.

Mitte lxxij. desandrachatas.

Yours sincerely,

THE APPRENTICE AGAIN. (50/48.)

SIR,—With regard to your "peculiar prescription" on page 751 of May 26, the prescriber is Dr. Steele, of this city, and the second preparation is intended for "Thilum" (or thili) ; also "desandrachatas" is his special term for varnished.

52 Royal York Crescent, Clifton. JOHN DUNBAR.

[We have also replies from *Mr. J. Hicks* (Bristol), *Mr. S. A. Owen* (Bath), and others to the same effect.]

Silvering Varnished Pills.

SIR,—Will you kindly tell a candidate for the Minor the best way to make silver-leaf stick on pills that have been varnished ?

By the ordinary method it takes a lot of silver-leaf to entirely cover them, and they never turn out with a bright surface.

Yours truly,

May 29. STUDENT. (52/20.)

[Use a mixture of equal parts acacia mucilage and water; rubbed on the pills with finger and thumb]

A Viscous Mixture.

SIR,—Can you kindly inform me why a mixture dispensed from the following prescription should, after standing a few days, turn cloudy and become of quite a mucilaginous consistency ? Syrup. aurant. made with best crystal and also with lump sugar has been used, and the freshly-made infusion and also the concentrated have been tried, but the result remains the same :—

Liq. Fowieri	♏xxxvj.
Tinct. nucis vom.	♏lx.
Syr. aurant.	℥vj.
Inf. gent. ad	℥vj.

M.

℥ss. ter die ex aq.

May 24. J. W. B. (49/33.)

[This subject is fully discussed in "The Art of Dispensing," to which reference should be made. Mixtures containing infusion of gentian are specially liable to viscosity. A ferment is the cause.]

Nux-vomica Mixtures.

SIR,—The subjoined prescription has been dispensed at three different establishments. In two of the instances a slight flocculent precipitate occurs on standing a short time. In the other instance the mixture remained perfectly clear. Should be glad to know which is correct.

Yours truly,

J. L. L. (52/72.)

Tr. nucis vom.	℥iss.
„ digitalis	♏ 40
Pot. bicarb.	℥iss.
Æther. chloric.	℥j.
Aq. ad	℥viij.

Cap. part. 8° ter die.

[The clear mixture had been filtered. We think this permissible in tr. nucis vom. mixtures. A little fat only is precipitated. Filtration should be indicated on the prescription.]

Use of Mucilage in Mixtures.

Sir,—It seems an undecided question to what extent the dispenser is justified in adding a suspending medium to mixtures containing insoluble salts of bismuth when not ordered by the prescriber. The majority of dispensers, in my experience, are of opinion that a viscous ingredient should be used, as the patient cannot possibly measure out equal doses of bismuth unless it has been suspended.

I have invariably used mucil. tragac. when no suspending medium has been ordered, and have never had complaints from patients of mixtures so dispensed. I think this point should be, if possible, definitely settled, as it must cause distrust in the mind of the patient to have the mixture at one time prepared with a suspending medium and at another time without. I should be pleased to have your correspondents' opinions of this matter.

The small amount of solid matter in mucil. tragac. cannot, I should think, detract from the efficacy of the medicine.

May 29. A. H. H. (52/32.)

[An objection to tragacanth is that it sometimes, but not always, forms with bismuth a slimy mass which settles to the bottom of the bottle.]

An Alkaloidal Change.

Sir,—The following prescription was handed me to dispense:—

Quin. et ferri cit.	ʒj.
Liquor hyd. perchlor.	℥j.
Pot. iodid.	ʒiss.
Mag. sulph.	℥j.
Aquam ad	℥vj.

M. ℥ss. bis die.

In whatever order the ingredients were mixed the quinine was thrown out, and after standing was deposited in flocks; at the same time a deep-red coloured froth formed, which was with difficulty diffused through the mixture by shaking. I did not add mucilage, as I found the red colour was more readily developed by doing so.

A portion of the red froth when mixed with iodide-of-potassium solution became nearly colourless and clear. From this I thought it must be mercuric iodide, but this could hardly be the case, for after allowing it to stand for some hours the whole of the mixture became quite red.

Can any of your correspondents explain the reactions which take place, and inform me how this can be dispensed so as to form a presentable mixture?

A. H. H. (52/32)

[Our correspondent does not appear to be aware that potassic mercuric iodide is a universal precipitant of alkaloids. His description of the changes is, however, interesting. The mixture cannot be made at all presentable.]

LEGAL QUERIES.

Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and The Chemists' and Druggists' Diary.

51/50. *Wiltshire.*—Your informant is wrong. The Weights and Measures Act (1878), section 45, expressly provides that "a weight or measure duly stamped by an inspector under this Act shall be a legal weight or measure throughout the United Kingdom unless found to be false or unjust, and shall not be liable to be re-stamped because used in any place other than that in which it was originally stamped."

51/57. *Coca.*—Any registered chemist and druggist can, if he choose, describe himself as a homœopathic chemist. It is not legal for any person not registered to so describe himself. There is no decision governing the right to use the description "pharmacy" by persons other than pharmaceutical chemists. It depends on the interpretation of section 12 of the 1852 Act, which reserves to pharmaceutical chemists the right to any name, title, or sign implying that the person using it is registered under that Act.

52/47. *S. W. A. T.*—It is not illegal for a chemist (not qualified as a veterinary surgeon) to visit a sick dog. He cannot, however, recover any fee for such service in a court of law. We do not think premiums are often paid nowadays with out-of-door apprentices.

33/53. *H. S. V.*—We are not aware that such a label as the one you send has been previously considered to be non-liable. If you were to say "After Blaud's formula in the British Pharmacopœia," there would be no liability.

MISCELLANEOUS INQUIRIES.

The Editor replies to queries of general interest, in the order in which they are received. Replies are inserted according to the space available. Postal answers cannot be supplied.

Back numbers containing formulæ, educational or other specific information can be obtained from the Publisher.

84/24. *Dens.*—**Pumice in Tooth-powder.**—Pure powdered pumice should only be used occasionally for the teeth, and only for the removal of tartar. There is no objection to the daily use of tooth-powders containing up to 10 per cent. of pumice. Once the teeth are thoroughly clean they can be kept so by using the tooth-brush after each meal, and it is not necessary to use a powder merely for its gritty property. The powder should certainly be saponaceous, soap being an excellent dental detergent. The following formula is a good example of what a simple tooth-powder should be:—

Curd soap, dried and in powder	ʒj.
Powdered pumice	℥j.
Powdered orris	ʒiij.
Precipitated chalk	℥v.
Otto of rose	♏vi.

Triturate the first two ingredients in a mortar with the otto for ten minutes, then add the chalk and orris, and sift twice. If any colouring, such as carmine or orange, is desired, it should be triturated at the same time as the otto, and the chalk added gradually.

29/33. *T. W. D.* has found the following formula for Cold-cream excellent. He got it from the *C. & D.*:—

Ol. amygd. dulc.	℥x.
Ceræ alb.	℥iss.
Cetacei	℥iss.
Lanolini	℥ij.
Aquæ	℥v.
Boracis	gr. xx.
Aq. rosæ conc.	ʒij.

M.S.A.

The only objection to the product is that it becomes slightly darker in colour on the surface. This can be prevented by covering pots with tinfoil; but is there any other plan? [This is the objection to most preparations containing lanoline. We should think the addition of an ounce of glycerine to the above would have the effect of retaining the water (the evaporation of which is apparently the cause of the coloration). Perhaps our correspondent will try, and tell us his results.]

44/3. *Moulting.*—Use the Rosemary Saponaceous Hair-lotion No. 1, in Diary, page 366; and Startin's Dandruff Ointment, for which you will find a formula in the *C. & D.*, March 24, page 436.

43/66. *Subscriber.*—What do you mean by "Renovating Brass"? If simply cleaning and polishing, rub with rottenstone made into a paste with saturated solution of oxalic acid, and polish with woollen cloths. The harder you rub, the quicker will the polishing be done.

47/26. *Querist.*—As the earth is not a perfect sphere it is obvious that the force of gravity varies on different parts of the surface. It is only in extremely critical chemical researches that this influence has to be considered.

43/63. *G. L.*—There is no mill in the world which will produce as fine a powder as the sample of pulv. ipecac. which you send us. It can only be done by grinding and sifting. Bennett's new drug-mill is very good, but it will not give you a No. 80 powder without sifting.

86/10. *Phenacetin.*—The inquiry recently made by a committee of the British Medical Association (see *C. & D.*, January 20, page 79) showed that phenacetin may sometimes cause unpleasant effects; but this result is rare, compared with other analgesics. Your customer is apparently one of those with whom phenacetin does not agree. For instance, if one has a weak heart, a comparatively small dose of phenacetin (1 or 2 grs.) causes palpitation, flushing of the face, and other symptoms which indicate that the remedy is not one to be trifled with. Yet in this respect phenacetin is the safest of all synthetic antipyretics and analgesics.

47/9. *Sapo.*—Furniture-paste.—See DIARY, page 363. The following is the standard formula:—

	Oz.
Yellow wax	8
Resin	2
Turpentine	16
Alkanet	1

Put the wax and resin in a 2-lb. or 3-lb. covered jar, and put the jar in a pan of water (with a layer of tow at the bottom). Heat until the wax and resin are melted; add the alkanet, and simmer for an hour or more. Then remove from the fire, add the turpentine, with constant stirring, and strain.

Should the mixture not be hot enough for straining, heat carefully on the water-bath again.

47/22. *Charcoal.*—We have noticed in several American journals paragraphs and articles on "Black Pepsin," indicating that it is, to put it mildly, a compound article.

48/3. *Pharmacist.*—When liq. hydrarg. perchlor. and liq. strychninæ are mixed together there is a precipitate of a double salt of the alkaloid and mercury.

225/94. *Horner.*—Your emulsion is very nice; but you do not tell us how you have got rid of the yellowish tint, and that to us is the most interesting point.

48/25. *J. H. N.*—Dagonet's Hair-restorer is, we think, a name for peroxide-of-hydrogen solution.

51/71. *Agricola.*—For Weed-killer see our issue of March 10, page 369.

51/30. *Poorahnah.*—We know of no commercial use for pure nitrogen.

50/21. *Toilet-cream.*—Try this formula:—

P. zinci oleat.	℥ss.
Ol. vaselin.	℥ss.
Adipis lanæ hydros.	℥ij.
Otto rosæ	gtt. v.

M.

49/27. *Seltzogene.*—Five-pint Seltzogene Charges are commonly made up of 1½ oz. (ʒx. is enough) sodium bicarbonate and 1 oz. tartaric acid. The amount of the latter is very close to ℈xxj., and it will only neutralise a fixed amount of soda. We suspect that your customer has put the soda in the seltzogene first, then the acid. The reverse is the proper way, in order to ensure complete decomposition.

49/21. *Westland.*—One of the latest and best books is "An International System of Electro-therapeutics," by Dr. Horatio R. Bigelow. (F. J. Rebman, 34*s.*)

49/28. *Lux.*—You might send us a specimen of the powders, fresh and after they become white.

51/7. *Dewsburian.*—Thanks for your suggestion. See the announcement made this week, and the articles in this issue.

51/15. *H.*—Calcutta is a healthy town, especially for temperate men. It is a very hot place (as you may judge from some of Kipling's sketches), and except for cholera and fevers as good a town to live in as there is in India. Chemists' assistants receive the equivalent of 150*l.* a year to start, with quarters. The cost of living is from 25 to 50 per cent. higher than in England, imported goods especially being dear. Of course, about 90 per cent. of the things one lives on are produced in the country; but it is not the things one eats which make life worth living, and those who live in Calcutta feel that to the fullest extent.

28/31. *C. F. J.*—We can find no pumice in the sample of Tooth-powder. The following emendation of your formula comes very close to it:—

Pulv. iridis flor.	℥vj.
Pulv. sapon. alb.	℥j.
Sodii bicarb.	℥ss.
Otto rosæ	♏v.

Mix well and sift.

42/9. *Tontine.*—Powder for Rectifying Sour Beer.—Dried carbonate of soda coloured with a very little permanganate-of-potash solution.

30/38. *Wild Cherry.*—(1) We can find no antiseptic in your tooth-powder. The basis is a mixture of precipitated chalk and French chalk—say, equal parts. Five grains of carmine dissolved in solution of ammonia will give you nearly the same tint; but this is a thing you must try. The powder also contains orris. (2) See reply to "Dens," *re* use of pumice in tooth-powders. (3) One minim of gingerine is equal to tr. zingib. ʒj. and tr. zingib. fort. ♏xv. One minim of capsicine is equal to tr. capsici ʒivss.

46/66. *Anxious.*—The following will make one dose of Diarrhœa-mixture similar to the sample which you send us:—

Sodii bicarb.	gr. x.
Tr. chloroform. et morph.	♏xv.
Inf. cinchon.	ʒj.
Aq. ad	℥ss.

M.

We think the bitter more resembles cinchona than gentian.

46/29. *W. G.*—(1) We find rose-petals, lavender, and a bit of a patchouli-leaf in the Thirty-year-old Sachet which you send us; but there has been more in it originally, we think, for the odour is very fine. Probably tonka bean, cinnamon, and musk have been added as a tincture. (2) If Marking-ink does not come out of linen with cyanide-of-potash solution, paint the spots with tincture of iodine, and after a night wash with hyposulphite-of-soda solution.

46/22. *Anti-coryza.*—We think so highly of your embrocation that we would be glad if you would send us the formula for publication.

50/47. *A. S.*—Get Keene & Ashwell's "Companion to the Homœopathic Pharmacopœia."

50/12. *Fifteen All.*—We have found vaseline a suitable dressing for the Gut of Tennis-rackets. A mixture of boiled linseed oil and copal varnish is also good when the gut-surface is worn. Spirit varnishes are not so good.

50/45. *Barlikorn.*—You must have overlooked the reply which was given to your query. We distinctly remember having replied to it. Extract of Malt is a preparation very like jams or honey—viz., a strong solution of sugars in water. These sugars are extremely liable to become inverted, thereby changing to the less soluble forms, so that the invertion is followed by the crystalline appearance which you complain of. The prevention of this is a problem which we have not had the opportunity of practically attacking, and we regret that we cannot give you the information which you desire. This information is valuable, and if any of the few who possess it furnish us with a statement of their views, we shall gladly publish it.

18/5. *J. F. W.* wishes to know a simple Test for Acetone in Urine. The best rough-and-ready test that we know is that of Legal:—Take a few c.c. of the urine, and add a few drops of a strong freshly-made solution of sodium nitroprusside. Then slowly add a moderately strong solution of caustic soda, and watch for the appearance of a red colour, which very soon vanishes, but which, if acetone be present, is changed to a purple colour by the addition of a few drops of acetic acid. If acetone is not present the purple does not appear. Should greater accuracy be required Lieben's test may be used. For this it is necessary to distil the urine, and a little phosphoric acid should first be added to it to prevent the evolution of gases during distillation. Several c c. of the distillate is then taken, and to it there is added a few drops of iodo-potassic-iodide solution and of caustic potash. If acetone is present there will be an abundant deposit of iodoform crystals. This test is a very delicate one, for the iodoform crystals can easily be detected, even when there is only a trace of acetone present.

52/6. *Zampa.*—Use oil-soluble aniline orange for colouring pale beeswax.

C. Woollons.—We are obliged for your letter with samples, but do not see that any comments can be usefully made.

INFORMATION SUPPLIED.

For this section we are always glad to receive from subscribers brief notes on practical subjects, recipes which have been found good in practice or which have required modification, and hints or fresh ideas on any pharmaceutical or trade matter.

Squeegeeing Silver Prints.—*Rohami* (52/40) writes:—"As one who has gone through the mill may I add to your reply 41/59 that there are two important points worth noting to prevent the prints adhering to the glass in this operation? First, never omit the alum-bath; and second, allow the prints to half dry, face upwards on a cloth, before squeegeeing. Ferrotype is much to be preferred before glass."

The Cold-cream formula in the DIARY works splendidly. Though being my maiden attempt at cold-cream making, I produced some that sent some samples from the wholesale into the shade. CUPRUM. (52/57.)

Tincture of Castor as a Lure.—I recommended tincture of castor to a gentleman to sprinkle upon his gloves before setting traps for vermin, and he reports an unprecedented success, having caught two stoats in the same trap on two successive nights. Lovers of natural history may be interested to hear that the same gentleman has a pair of martens on his estate. These are very rare in this country.
Dover, May 30. J. F. BROWN.

INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, post-card replies to the following:—

51/25. What is ung. plumbi et hamamelid. co.?

88/13. Makers of infants' food in bulk.

49/41. Maker of greaseless gloss for the hair.

Next Week.

Meetings, &c., to be held, and business to be transacted thereat. Suitable notices will be inserted in this section if received by the Editor on or before Wednesday.

Monday, June 4.
Royal Institution of Great Britain, at 5 o'clock. General monthly meeting.
Society of Chemical Industry (London Section), Burlington House, at 8 P.M. The following papers will be read:—1. (*a*) "Experiments on the Strength of Leather"; (*b*) "Note on the Colour of Brass." By Mr W. G. Macmillan, F.I.C., F.C.S. 2. Distillation of Peat." By Dr. P. Dvorkovitch.

Tuesday, June 5.
Royal Institution of Great Britain, at 3 o'clock. The Rev. W. H. Dallinger, LL.D., on "The Modern Microscope."

Wednesday, June 6.
Edinburgh Chemists', Assistants', and Apprentices' Association. Botanical Excursion. Meet, Holyrood Gate, at 6 A.M.

Thursday, June 7.
Chemical Society, at 8 P.M. Ballot for the election of Fellows. "The Nature of Phosphorescence," by Herbert Jackson, B.Sc. "The Crystallography of the Normal Sulphates of Potassium, Rubidium, and Cæsium," by A. E. Tutton. "The Boiling-points of Homologous Compounds. Part II.," by Dr. James Walker.

Friday, June 8.
Royal Institution of Great Britain, at 9 o'clock. C. Vernon Boys on "The Newtonian Constant of Gravitation."

Business Changes.

MR J. B. FOGGITT has just opened a third drug-store in Southport. He opened his first there three years ago.

THE Sussex Co-operative Drug Company (Limited) are shortly opening a branch establishment at No. 48 London Road, St. Leonard's, Sussex.

MR. J. M. MCMILLAN, late of 4 Wellpark Place, Crossmyloof, Glasgow, has succeeded to the business of the late Mr. W. M. Jackson, at 6 Alloway Street, Ayr.

MR. D. GUY, chemist and druggist, 107 High Street, Grays (Essex), has transferred his business to larger and more commodious premises opposite the parish church.

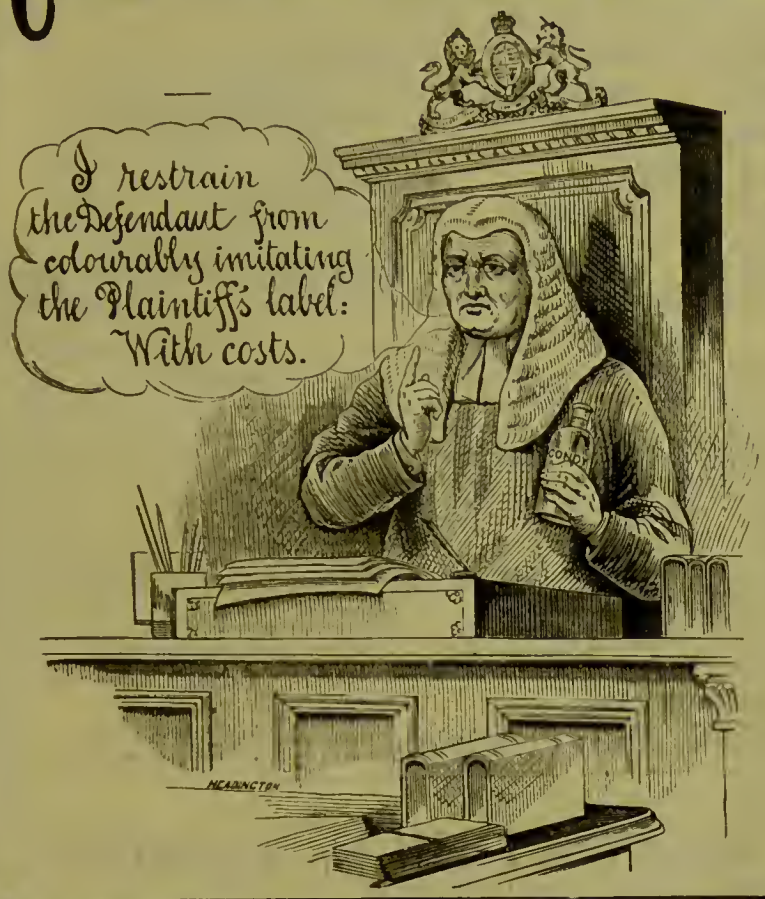
MR. J. H. STARLING, F.I.C., F.C.S., who has recently resigned the office of Superintending-Chemist to the London County Council's Crossness Sewage-works, has, as a consulting chemist and chemical engineer, taken offices at 32 Craven Street, W.C.

MESSRS. THOMAS S. HARRIS & CO. have acquired the oil-business hitherto carried on by Mr. J. C. Rohrweger, at 4 Fen Court, E.C. (who has relinquished this business on account of advancing age), and will carry it on in their own name at 107 Cannon Street, E.C., in connection with their own business. Mr. J. Laehner, Mr. Rohrweger's manager, will continue to act in the same capacity for Messrs. Harris & Co.

MESSRS. BARKER BROTHERS, of Smyrna, inform us that most of the opium business of the late Mr. E. A. Maltass (who was connected with that firm, and whose death we announced in a recent issue), has been taken over by Mr. Jacob Topuz, who is also very well known in the trade. Mr. Topuz, they say, is one of the best opium experts in Smyrna, and has passed many years in the opium-producing districts as a dealer.

MR. JOHN LETBE, chemist, of the New Arcade, Sunderland, has just celebrated his trade jubilee. In May of 1844 he commenced his apprenticeship in the well-known chemist's and druggist's shop of Mr. Fairley, opposite Sans Street Chapel.

CONDY'S FLUID CONTAINS NO PERMANGANATE OF POTASH.



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1st Quality.

4½ lbs. or 7 lbs. .. .. 1/9 lb.
1 cwt. .. .. 1/8 „

2nd Quality.

This preparation furnishes the Chemist with a really first-rate article at a low price. We guarantee it to contain a large proportion of Citric Acid, that it is as carefully made as our best quality, and that it will keep as well.

In 4½ or 7 lbs. at 1/3 lb., less 10 %
Per cwt. in „ at 1/- lb. net.
„ 3 „ „ „ at -/11 lb. net.
Special line, 28 lbs.
(tin included) .. .. 32/- net.
6 oz. flat, plain label (capsuled), per doz. 4/3; per gross 48/- „
½ lb. round do., doz. 4/9; „ 53/- „
¼ lb. „ „ „ 8/-; „ 90/- „
1 lb. „ „ „ 15/-; „ 165/- „

SALINES.

The very greatest care is taken in the manufacture to ensure their keeping well. They have given complete satisfaction to our customers, as evidenced by our largely increasing sale.

Saline, powder or granular, in 4½ lbs. or 7 lbs., at 1/3 per lb., less 10 per cent.
Ditto, per cwt. .. at 1/- net.
Special line, 28 lbs. (tin included) .. .. 32/- „
In 8-oz. Capsuled Bottles (Wood's quinine tint), labelled or plain, per doz. .. .. .. 8/6 „
In 8-oz. ditto, per 6 doz. 8/- „
„ „ per gross 90/- „
„ „ per 3 grs. 84/- „
In 6-oz. „ per dozen 7/- „
„ „ per gross 78/- „
„ „ per 3 grs. 72/- „

SEIDLITZ POWDERS.

These powders are accurately weighed, B.P. strength, made with Howard's Seidlitz and the finest English Acid, free from lead by B.P. test.

In one gross boxes.

	Per box net.
50 gross in 50 boxes	at 4/3
20 „ 20 „	„ 4/6
10 „ 10 „	„ 4/9
1 „ 1 „	„ 5/-

In one dozen boxes (bronze blue), unlabelled and unwrapped, at 6*d.* per gross extra.
Labelled and wrapped, extra.
The same quantities in half-dozen boxes, 6*d.* per gross extra.
For extra strong powders add 1/- a gross to the above prices.

SELTZOGENE POWDERS.

Two pint, 12/6 per doz. bxs. net
Three „ 14/6 „ „
Five „ 18/6 „ „
Eight „ 32/- „ „

Packed in Envelopes in superior hinged bronze box.

Reduction in quantities of 1 gross boxes.

Bottles, Jars, Tins, extra at cost, ¼ of Bottles and ⅓ of Hampers if kept. Contracts delivered as required within 6 months.

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ANTINERVINE (RADLAUER) PATENT. (Salicyl-Bromanilid). In Powder Form, acts as an Antineuralgicum and Antipyreticum. It has been used with excellent results by numerous Medical Authorities in Hospital and Private Practice, in cases of Influenza, Asthma, Nervous Headaches, Pulmonary Tuberculosis, Rheumatism of the Joints, Gout, Neuralgia. Antinervine has no injurious side effects, and can be used for some time without injury to the organism.

ANTISEPTIC PERLES (RADLAUER) contain Thymol, Menthol, Eucalyptol, Vanillin, and Essential Oils, in globular form Of pleasant taste and fragrance, they act strongly antiseptic to the membranes of the mouth and larynx, and to the tonsils; as a prophylactic for Diphtheria they are of great value amongst Children and Adults, superseding Mouth Washes and Gargles.

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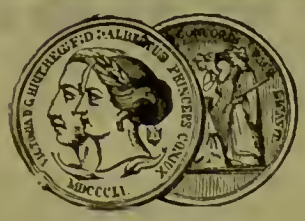

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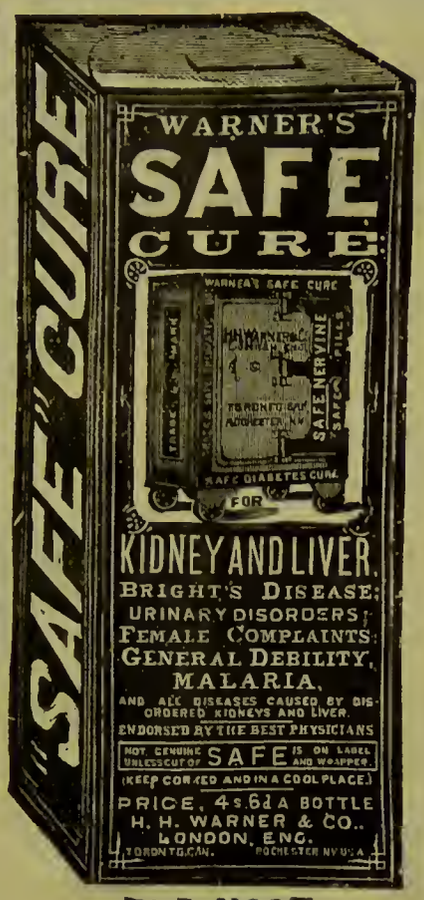

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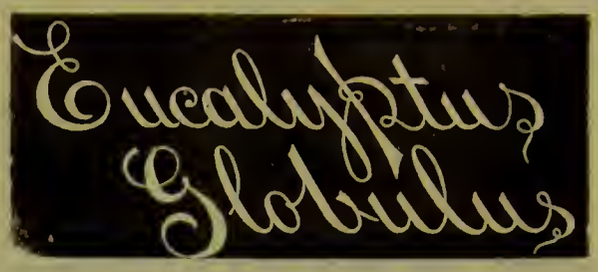

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1A.	Thick " "	10½	3	7/6
8.	Thin, for leg and knee	14	3	7/6
7.	Thick " "	14	3	9/6
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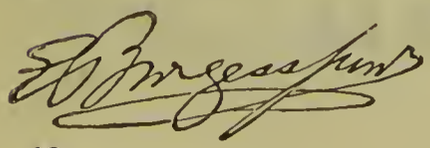

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ESTABLISHED OVER HALF A CENTURY.

Discovered and Invented by RICHARD FREEMAN In 1844.

In bottles, 1/1½; 2 oz., 2/9; 4 oz., 4/6; half-pints, 11/-; and pints 20/- each.

The words Freeman's Original Chlorodyne are engraved on the Government Stamp.

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Purchasers are CAUTIONED not to have palmed upon them any substitute. See that the Trade Mark "THE ELEPHANT," is on the Wrapper, &c., and the words "FREEMAN'S ORIGINAL CHLORODYNE" are engraved on the Government Stamp—which is the only TRUE CHLORODYNE.

N.B.—Lord Chancellor Selborne, Lord Justice James, and Lord Justice Mellish decided in favour of FREEMAN'S ORIGINAL CHLORODYNE, and against Brown & Davenport, compelling them to pay all costs in the suits. See "Times" of July 24, 1873.

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In consequence of the proceedings against a vendor of "Dr. Collis Browne's chlorodyne," reported in THE CHEMIST AND DRUGGIST of April 21 last, the proprietors of "Freeman's original chlorodyne" have determined in future to label their preparation as follows:—"This chlorodyne does not contain either of the poisons in Schedule A, Part I., of the Pharmacy Act of 1868.

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Owing to misapprehensions as to the amount of morphine used in the preparation of

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CAFFYN'S MALTO-CARNIS,

Composed of Liquor Carnis (66%), Malt and Cocoa.—*Medical Press.*

TO make a cup of Cold, Crisp, and Concentrated Beef-tea in half-a-minute: Simply take a dessertspoonful of CAFFYN'S MALTO-CARNIS, dilute it with half-pint of cold new milk (iced for preference). RESULT: A Refreshing, Nourishing, Stimulating Drink, very rich in nitrogenous matter, with an entire absence of the taste of beef.

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(Patent Absorbent Gauze and Cotton Wool)
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All kinds of
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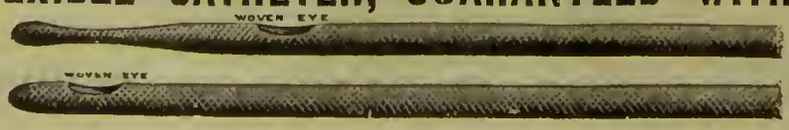

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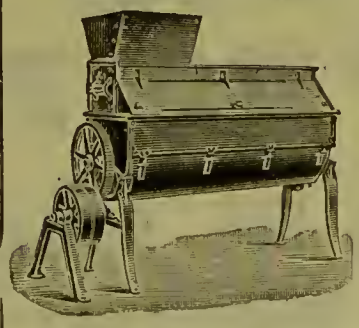

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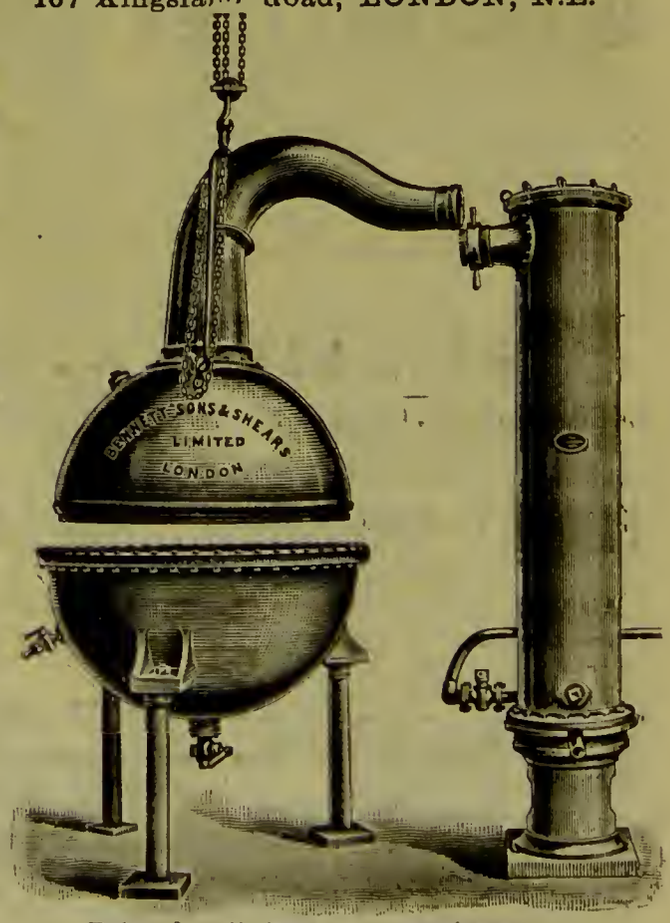

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ESSENCE OR FLUID EXTRACT OF **SARSAPARILLA**
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WELL KNOWN AS "A superior preparation that may always be relied upon."
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28TH OF JULY NEXT.

Firms wishing to send out CIRCULARS or PRICE LISTS with this Issue should communicate without delay with
THE PUBLISHER, 42 CANNON STREET, E.C.

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The Chemist & Druggist SUPPLEMENT.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

SATURDAY, JUNE 2, 1894.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

IMPORTANT NOTICE.

The Circulation of THE CHEMIST AND DRUGGIST SUPPLEMENT this week, June 2, exceeds

14,000.

IT IS SENT TO EVERY

CHEMIST AND DRUGGIST IN BUSINESS.

IS GIVEN WEEKLY TO

ANY ASSISTANT WHO APPLIES FOR IT PERSONALLY;

AND IS POSTED TO

ANYONE CONNECTED WITH THE TRADE WHO SENDS A STAMPED ADDRESSED WRAPPER FOR IT.

It is an unequalled ADVERTISING MEDIUM for Drug Trade requirements.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—£2,000.—**LONDON, W.**—Very old-established Dispensing Business; Returns £2,000 yearly; situate in a fashionable locality and main thoroughfare; the position offers great facilities for extension of business; full particulars on application; about £1,800 required.

2.—£2,000.—**LONDON** (Suburban).—Good middle-class Business; nearly all ready-money; returns over £2,000 yearly; stock and fixtures of first class; capital opportunity for partnership; price about £1,500 to £2,000, to be arranged.

3.—£1,200.—**LONDON, N.W.**—Dispensing and Retail Business; situate in a very good-class suburb; returns £1,200 yearly; well-fitted shop and good stock; good house at moderate rental; price about £1,000.

4.—£700.—**LONDON, N.**—Retail, Dispensing, and Proprietary Business; returns about £700; *very good profits*; convenient shop and excellent stock; price about £500; *net profit* is between £250 and £300.

5.—£750.—**LONDON, E.**—General Retail Business; well situate in a main thoroughfare; returns £750 yearly (ready-money); *good profits*; chiefly full prices; well-fitted shop; good house; price £500.

6.—£625.—**LONDON, S.E.**—Prescribing and Retail Business; established many years; returns last year between £600 and £625; all *very profitable*; house in good condition; well-fitted shop; low rental, long lease; price about £500.

7.—£500.—**LONDON, N.W.**—Nucleus of Business; neglected; situate in a good residential locality; returns £500; has been double until lately; about the value of stock and fixtures only required.

8.—£600.—**SUBURBAN (South District).**—Old-established Business; Dispensing and Retail Business; returns £600 yearly; shop is well fitted and convenient; convenient house and good garden; price about £550.

9.—£2,700.—**HOME COUNTY.**—Dispensing and Retail, with very good Wholesale; old-established concern; returns average £2,700 yearly; *very good profits*; good house, and well-fitted shop; very convenient business premises; price required about £1,800.

10.—£350.—**HANTS.**—Retail and Prescribing Business; old-established Business; returns £350 yearly, easily extended; single-fronted shop, and ample stock; good-sized house, low rental; garden and warehouse attached; price £300.

11.—£600.—**BERKS.**—Good-sized town; very good-class Business, Dispensing and Retail; returns £600 yearly, *very profitable*; good sized house with garden, on lease; price about £550, the estimated value of stock and fixtures.

12.—£1,200.—**KENT.**—Dispensing and Retail; very nice increasing Business; returns at present at the rate of £1,200, *very good profits*; good house and small garden, rent low; price £850; worth attention.

13.—£1,000.—**SUSSEX.**—Dispensing and Family Retail, small amount of Stationery; established over 30 years, held by vendor over 25 years; returns nearly £1,000 yearly, with *first-rate profit*; the Business is unopposed; convenient house; price about £700; open to offer.

14.—£700.—**MIDLAND TOWN.**—Dispensing, Prescribing, and Retail; returns about £700; *very good profits*; convenient house, in good repair; well-fitted shop; moderate rental; price about £650; offer wanted.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

F. J. BRETT,

VALUER, LEICESTER.

60 St. Stephen's Road.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE, NO CHARGE TO BUYERS.

STOCKTAKING UNNECESSARY. — Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

F. J. BRETT is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

STOCKS AND FIXTURES BOUGHT FOR CASH

KENT.—£870 returns; good-class and increasing Light Retail; net profit about £350.

LINC.—£1,250 returns; good market town Retail, with profitable and increasing trade in Wines and Spirits; own bottling; valuation about £500; suit one or two energetic men.

SUFFOLK.—£1,250; good-class Retail and Dispensing; handsome shop, and exceptionally good residence; price about £1,150.

SUSSEX.—£670 returns; Dispensing and Light Retail; net profit over £300; price £550.

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS

30 JEWRY STREET, ALDGATE, E.C.

Established 1870.

NOTICE TO VENDORS.

Having been for the past 23 years solely engaged in the Sale, Purchase, and Valuation of Chemists' Businesses, we have, as Transfer Agents and Valuers, the largest experience of any in the Trade. VENDORS placing their businesses in our hands for transfer may in all cases rely upon a speedy sale being effected without undue publicity. Terms forwarded post free on application. No sale, no charge.

BUSINESSES WANTED.

NO CHARGE TO PURCHASERS.

1.—**KENT** (Few miles out).—Select Retail and Dispensing Business: returns £7 0, steadily increasing, will do £1 000; elegant pharmacy, well stocked; price £500; worth special attention.

2.—**EAST COAST**—Old-established Retail and Dispensing Business; returns £1 250; very handsome shop, heavily stocked; good house, long lease; price £1.150 or valuation.

3.—**SUSSEX** (Coast)—Retail and Dispensing Business, in suburb of fashionable seaside resort; returns nearly £700; net profits over £300; shop is well fitted and stocked; price £500.

4.—**TORQUAY.**—Retail and Dispensing Business; returns £7 weekly under management: low rent; good house, well-fitted and stocked shop; price £235 or valuation; photo on view.

5.—**STAFFORDSHIRE**—Death vacancy; returns £500 under management, principal did £1 0 0; low rent; excellent position; valuation only required; about £200: rare chance to beginner.

6.—**LINCOLNSHIRE.**—Retail and Prescribing Business; returns £950 in Drugs, and some Wines and Spirits besides; net profit over £300; valuation about £500; no goodwill required.

7.—**SOMERSET.**—Retail, Dispensing, and Prescribing Business: returns about £500 under management, principal will do £700; rent £25, good house, well fitted and stocked shop; price £375.

VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

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Chemists' Transfer Agents and Valuers,

25 BEACONSFIELD ROAD BRIGHTON,

Inclusive terms to Vendors. No extras whatever. Businesses £1,000 and upwards transferred at special rates.

Messrs. ANDROS & CO. have the following for disposal:—

LONDON, S.E. (Suburb).—Good-class Prescribing and Family Business; practically unopposed; good house; rent £45, on lease; returns £417 per annum; lowest price 225 guineas.

SUSSEX (Main Line, near Brighton).—Very old-established good-class Mixed Country Business; double-fronted shop; good house and flower garden; returns £800; low rent, on lease; price £625 or close offer; sole cause of sale ill-health.

Messrs. ANDROS & CO. have many Businesses for Sale in Lancs., Sussex, Surrey, Kent, Midlands, &c., and in all parts of the Kingdom. Full particulars free on receipt of requirements.

NO CHARGE TO PURCHASERS.

CROCKER & CO.

SOLE PROPRIETORS—

Mr. WILLIAM JUDD and Mr. ALFRED MANNERS,

Trade Valuers, Transfer Agents, and Accountants,

15 WALBROOK, E.C.

Valuations made for Probate or Transfer, Books Audited and Balance Sheets prepared in any part of the United Kingdom.

SEASIDE Business in fashionable health-resort: returns over £1,200 yearly; very profitable; the trade is principally good-class Retail and Dispensing; a moderate premium will be accepted for goodwill, with valuation of stock and fixtures.

LONDON, WEST END.—High-class Family trade: returns £1,250 at full prices; net profit £400; fine handsome pharmacy, well stocked, &c.; price, small premium for goodwill and valuation of stock and fixtures.

Re THOMAS WALTON Deceased.

74A HAVERSTOCK HILL, N.W.

We are instructed to offer for Sale by Tender, the Goodwill of this old-established Manufacturing Business, together with the Stock-in-Trade, Fixtures, Fittings, and Utensils. The articles manufactured are well-known and in excellent demand, and comprise Walton's Flora Nigra, Walton's Kaloderma, Walton's Argentine, Cement, Gold Paint, &c.

The books can be inspected (by appointment), and full particulars obtained at our office any day between 10 and 4 o'clock, and tenders will be received up to 1 o'clock on Thursday, the 7th of June next, when the highest tender will be accepted, and the purchaser declared.

G. B. CROCKER & CO., Accountants and Valuers, 15 Walbrook, E.C.

Valuations a Specialty. Terms on application.

THOMAS TOMLINSON & SON

Chemists' Consultants, Transfer Agents, and Valuers,

9 NEW CANNON ST., MANCHESTER.

Forty-four years' experience, during which period they have transferred valued, or arbitrated over 1,000 Businesses.

BUSINESS WANTED.—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted them with commissions to look up a good genuine Business, intending sellers can rely upon being at once, with all despatch, put into communication with *bonâ-fide* buyers without publicity and the annoyance of answering "curiosity" applications.

No charge made unless Sale is effected.

A THOROUGHLY GENUINE CONCERN.—Intending purchasers will do well to place their names with Thomas Tomlinson & Son, giving particulars of their desires, and they will forward them from time to time full particulars of any genuine Business that will be likely to suit them.

NO CHARGE TO PURCHASERS.

Telegraphic Address—"Tomtom."

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

See important announcement on front page of this Supplement.

A PROVINCIAL Drug-stores; returns under manager £600; price £300. Write "Drugs," 37 Rosebery Square, Holborn, W.C.

CHEMIST'S eligible corner well-established Business in populous suburbs of Birmingham, for immediate disposal; good Dental business done: 6 years' lease. Apply, Hackett, Auctioneer, Oldbury.

SOUTHPORT.—Business for sale; established 20 years; rent £50; stock and fixtures at valuation; a moderate sum required; capital opportunity for an invalid requiring change of air. Ayrton & Saunders, 149 Duke Street, Liverpool.

FOR immediate Disposal; established 64 years in same hands; good Prescribing, Dispensing, and Light Retail; situated in centre of High Street, Putney; price £700, cash down; rent £80. Apply, A. C. Farmer, Chemist, Spilsby.

AN old-established Business for disposal; present hands 30 years; every investigation solicited to an immediate purchaser; stock and fixtures at valuation only. Further particulars apply Leaver & Leaver, Auctioneers, &c., 3 North Street Quadrant, Brighton.

A BARGAIN. — Lock-up Pharmacy (small) in West-end; main thoroughfare; doing £350 under management; a chance to a good Prescriber; satisfactory reasons for disposal. Address, "Mel," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LIVERPOOL.—For sale, old-established Family and Dispensing Business; commanding corner premises in main thoroughfare, with private house attached; sole cause of disposal death of proprietor, in whose hands it has been 30 years; price £400. Address, F., 91 Myrtle Street, Liverpool.

BUSINESSES FOR DISPOSAL—Cont.

WARWICKSHIRE.—Small old-established Light Retail Business, well situated, capable of extension; good house. Full particulars from "Chemist," 36 North Street, Rugby.

DENTAL Practice; a bargain; specially and handsomely built premises, cost £1,500; in flourishing town in Yorkshire; price, including practice, freehold premises, goodwill, &c., £1,550; average takings for last 5 years £526. Apply, Thos. Tomlinson & Son, 9 New Cannon Street, Manchester.

£200.—No opposition; population over 3,000; returns £300; Light Retail Business, in Midland county; shop is well fitted with mahogany; rent £16 10s.; worth attention; vendor taking larger concern. "Kat.," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FIRST-CLASS Retail and Dispensing Business on the Kentish Coast, making a net profit of £450 per annum after paying all expenses; elegantly-fitted shop; very heavy stock; price £1,250; references given and required. "Kent," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BIRMINGHAM.—Retail Drug Paint, and Sundries; returns about £500 yearly, capable of large expansion; low rent; excellent situation; capital chance for energetic young man; stock and fixtures at valuation; satisfactory reasons for leaving. Apply, Wyleys (Limited), Moor Street, Birmingham.

MIDLANDS.—Small town; no cutting or stores; first-class Retail and Dispensing Business; net annual profit £400 clear; handsome shop, good house; price £800, or reasonable offer will be entertained; full investigation allowed. 48/87, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANCHESTER.—Cash Retail and Prescribing Business, in a main thoroughfare; very populous neighbourhood; shop well stocked, and good appearance; comfortable house; moderate rent; price £450. Apply, for further particulars, to 94/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSING and Retail Business; attractively-fitted shop, situated in London, main road; returns about £800; compulsory sale, vendor obliged suddenly to leave town; fixtures at valuation and stock optional, or reasonable offer; good house, private entrance; part let off. "Chemist," c/o W. Garner, 24 Thavies Inn, Holborn Circus, E.C.

£225.—**NORFOLK.**—Few miles from the sea; unopposed; Light Retail and Prescribing Business; returns £550, at good prices; rent £20; good house; walled in garden; to effect an immediate sale, the low sum of £225 will be accepted. 49/98, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR sale, on account of bad health, old-established Business in Yorkshire manufacturing town; established 24 years; average takings £500 to £600; wine and spirit licence; general Drug trade, which can be greatly improved by a pushing man; easy terms can be arranged. Apply, "Antipyrin," c/o Hirst, Brooke & Hirst (Limited), Leeds.

FOR Disposal, through ill-health of the principal, a Retail, Dispensing, and Prescribing Business; established many years; situate in one of the chief thoroughfares in a thriving town in the county of Kent; capable of great extension; returns over £400; cash £300; good opening for Dentistry. T., Mr. C. H. Rawlinson, 8 Milton Road, Gravesend.

SURREY (charming locality).—Family Dispensing and General Retail; established 50 years; with Post Office and Branch Business within half-mile; unopposed; full prices; a thorough General and Medical introduction given; suitable for partners; a fair price required. Particulars, apply, letters, "Mutual," c/o Barnard, 18 Foxberry Road, Brockley, S.E.

£900.—West of England.—A modern Pharmacy, high-class Retail, Prescribing, and Dispensing; returns over £700, steadily increasing; profit over £400; very few patents; returns could be trebled by stocking them; cash down; no agents. Particulars from "Chloralamid," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

HANDSOMELY-FITTED, nice suburban Business; under management; splendid 11-roomed house; net rent £24; side entrance; only changed hands once in 30 years; taking between £6 and £7; twelve months back, £1,000; no fresh opposition; patents *nil*; good-class trade; principal could double returns at once. "Boracis," Horncastle's, 61 Cheapside, London.

£150 Cash (a bargain).—Hants seaport; yearly net profit over £250; no patents; no dispensing; highly profitable Prescribing, ordinary Retail, and own good Proprietaries; rent £32; no garden; established 25 years; owner leaving the trade; principals only. Write to "Goodluck," c/o Brown, Gould & Co., 54 New Oxford Street, London, W.C.

KENT.—Thirty miles from London, midst of thickly-populated town; Chemist's Business, stock, fixtures; lease 15 years remaining; moderate rent; established 48 years; widely-known, prosperous concern; large, well-fitted shop, convenient house; no agents; kindly state price required. Particulars, 83/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO be disposed of, profitable well-established Light Retail and Prescribing Business, situate in principal thoroughfare and good position in large and rapidly growing town of West Riding, Yorks; excellent scope for increase; exceptional advantages to qualified gentleman with good knowledge of Prescribing and Tooth-extracting. Address, 95/7, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EASTERN COUNTIES.—Light Retail, Prescribing, and Agricultural Business, in a large country district; no opposition for 5 miles; several Proprietaries with good sale; returns for 1893, £552; very profitable; greenhouse and large garden; rent £18; every investigation courted; lowest cash price, £450; personal interview preferred. Address, "East Anglia," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES WANTED.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

See important announcement on front page of this Supplement.

WANTED, good-class Retail, Dispensing, and Prescribing Business; returns from £700 to £1,000; advertiser has the cash at command, and is prepared to pay fair price for genuine concern; particulars received in strict confidence. C. A. S., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST requires shop, with comfortable house and garden attached, in a prominent position of populous neighbourhood; small town or thriving village, where there is little or no opposition; rent moderate, locality healthy, and preference given to modern or new building. Address, stating particulars, to J. O., 126 Murdock Road, Handsworth, Birmingham.

TO Chemists and Druggists.—Having sold the three Businesses recently advertised, Messrs. Wickenden beg to notify that they have now several *bonâ fide* applicants desirous of purchasing genuine concerns; cash from £200 to £2,000. Particulars forwarded in confidence to Wickenden's, 20 High Street, Tunbridge Wells, or Southborough, will receive prompt personal attention. Established 1840.

TO LET.

TO Let, splendid large flat, open roof; 3,000 square feet; could be divided; suitable for Photographic or Bleaching purposes; 4 ft. 6 in. parapet all round. Apply, Manager, Alliance Mills, Stamford Hill.

BOURNEMOUTH.—Shops, 57 by 20 by 12; lavatory, cellars; 13-room dwelling, bath-room, &c.; lift; 2 entrances; part would easily let; main central, busy traffic. Curtis & George, Blandford.

FOR SALE.

PLATE-GLASS Case, by Sage, &c., Bottles and Stock, Chemists' Fittings, for immediate sale. Apply, Milne, Chemist, Torquay.

SALES BY TENDER.

See important announcement on front page of this Supplement.

CORNWALL (St. Columb).—Messrs. Berdoe & Co. have received instructions to sell by Tender the Light Retail, Dispensing, and Prescribing Business, situated in Broad Street, St. Columb, Cornwall now carried on as a branch under management, and returning over £40 per annum, at good profitable prices; rent only £19 10s.; long lease; convenient 8-roomed house; shop is well fitted and stocked. St. Columb is a small market town, population about 3,000, most pleasantly situated, and to anyone seeking a business, with £200 to £250 cash, where a good living is made, this is an opportunity rarely to be met with. Tenders may be made either by lump sum or valuation of stock and fixtures. Business may be inspected; full investigation is offered. Tenders received by us up to Saturday morning, 9th of June next. Full particulars, orders to view, and forms of tender obtained of Messrs. Berdoe & Co., Valuers and Transfer Agents, 30 Jewry Street, Aldgate, London.

TO DRUGGISTS' SUNDRYMEN.

Re H. Gilbertson & Sons.

TO be Sold by Tender, by order of the Trustee of the Estate of Albert Brooks, Vone Taffs, Richard Dobson Dixon, and John Dowell (trading as H. Gilbertson & Sons), of 11 St. Andrew Street, Holborn, the Stock-in-Trade, Goodwill, and Business, as a going concern, of Druggists' Sundrymen, as hitherto carried on by the Debtors at the above address. The Stock-in-trade, &c., may be viewed on the premises from the 24th day of May to the 11th day of June, between the hours of 10 A.M. and 12 at noon, upon order to be obtained from the Trustee, Mr. William S. Ogle, 90 Cannon Street, E.C., from whom particulars, conditions, and forms of tender can be obtained on or after the 24th day of May inst.

All Tenders, sealed and endorsed "H. Gilbertson & Sons' Tender," must be sent to the Trustee before the 14th day of June next, at noon, when the same will be opened.

The Trustee does not bind himself to accept the highest or any tender.

SALES BY AUCTION.

See important announcement on front page of this Supplement.

BILLINGBOROROGH, LINCOLNSHIRE.

MESSRS. SAUL & HODGKINSON will offer by Sale, at the Fortescue Arms Hotel, Billingborough, on Thursday, the 21st of June, 1894, at 6 for 6.30, subject to conditions, the valuable and commodious Trade Premises, situated in centre of High Street, 3 minutes' walk from the railway station; house contains sitting-room, good kitchen, 7 bedrooms, and usual domestic offices, in excellent repair, with Chemist and Druggist's shop attached (which is also used as the Post Office), convenient warehouse, useful out-offices, garden, and spacious yard, with carriage approach thereto; a lucrative business has been carried on for 68 years; now, no Trade opposition. Apply to Auctioneers, Bourne and Billingborough.

GAINSBOROUGH, LINCOLNSHIRE

TO be SOLD by AUCTION, by Messrs. EDWARD BAILEY & SON, at the White Hart Hotel, Gainsborough, in the County of Lincoln, on Thursday, the 21st day of June, 1894, at 5 for 5.30 o'clock in the Afternoon, subject to the common form Conditions of Sale of the Lincolnshire Incorporated Law Society, and such special Conditions as will be then read,

All that BURGAGE, MESSUAGE, or DWELLING-HOUSE, with the Shop, Warehouses, Storerooms, and other Premises adjoining, situate in the centre of the town of Gainsborough, in the County of Lincoln, having a frontage to the Market Place of 23 feet, and a frontage to Market Street of 106 feet or thereabouts, now in the occupation of Messrs. Burrows, Chemists and Druggists. Also all those the WAREHOUSES and convenient PREMISES situate on the opposite side of Market Street aforesaid.

The Property will first be offered as a whole, and, if not sold then, in such lots as will then be determined upon.

The Property is most eligibly situated and of convenient and substantial character, the business of a Chemist and Druggist having been carried on there by the present tenants and the late Mr. John Ferris Marshall and their Predecessors for over a hundred years.

For further particulars, and to view, apply to the Auctioneers, Newark; or at our Offices.

IVESON & SON,
Gainsborough, 24th May, 1894. Solicitors.

PARTNERSHIPS.

ADVERTISER, experienced in high-class Pharmacy and Manufacturing, will treat for a sound Business or Partnership in a well-established firm; communications strictly confidential. Address, "Cantab," 17 Beaumont Road, Hornsey Rise, London, N.

APPRENTICESHIPS.

WANTED, an indoor Apprentice, well educated; moderate premium; comfortable home; thoroughly trained under personal supervision. F. E. Carpenter, Dispensing and Agricultural Chemist, Burnham and Highbridge, Somerset.

SITUATIONS OPEN.

See important announcement on front page of this Supplement.

WANTED, a qualified Assistant. Apply to J. Burton, Chemist, Llandudno.

STORE Trade.—Smart Junior wanted at once. Apply, personally, Bishop & Co., 460 Holloway Road, N.

LOCUM-TENENS, from June 28th until July 13th. Terms, references, &c., to Leach, Chemist, Macclesfield.

DISPENSER wanted, for about two months. Apply, "Manager," Provident Dispensary, East Bond Street, Leicester.

JUNIOR (indoors) Assistant, for Light Mixed Country trade. Send reference and photograph, Chas. M. Foottit, Marlow, Bucks.

ASSISTANT, who must be a quick and accurate Dispenser. Apply, with full particulars, to Lancaster & Co., 8 High Street, Croydon.

EDWIN HALL, Weston-super-Mare, requires a qualified Assistant. Apply, giving full particulars, and enclose carte, which shall be returned.

JUNIOR (outdoors). Apply, stating age, references, and salary required, together with photo (which will be returned), Taylor, Chemist, Kidderminster.

WANTED, a qualified Manager; single; indoors; good Prescriber and Extractor preferred; photo. Particulars to M. D., 138 Queen's Road, Halifax.

CHEMIST, M.P.S., and Dentist, desires an Assistant, wishing to acquire a knowledge of Mechanical and Surgical Dentistry. Apply, 30 Eldon Street, Finsbury.

IMMEDIATELY.—Competent Assistant, for Light Retail and Dispensing business; must be well recommended. Full particulars to W. H. Davison, Chemist, Hastings.

WANTED, qualified Manager accustomed to a high-class Store Chemist; highest references required; state age. W. B., 66 Queen Elizabeth's Walk, Stoke Newington, N.

IMMEDIATELY, qualified Assistant, outdoors, accustomed to good-class Dispensing and Counter work, for high-class Cash business. Apply, Heppell & Co., 35 Haymarket, S.W.

TRAVELLERS wanted for several towns in Scotland (for Drugs, Essences, Sundries); experienced or otherwise. Particulars to "Medicus," McKenzie, 74 George Street, Edinburgh.

WANTED a steady, reliable Assistant, qualified, well up in Dispensing and Retail (outdoor); about 26 years of age, experience and salary required. Crosby, Exors., 73 Newboro Street, Scarboro'.

WANTED, Chemist with practical knowledge of Perfumery, Toilet, and Packed Articles. Apply, stating, age, experience, and salary required, Ayrton & Saunders, 149 Duke Street, Liverpool.

A QUALIFIED Assistant, capable Extractor and with some knowledge of Dentistry preferred, to live in business premises. By letter, B. A., c/o Baiss Brothers & Co., Jewry Street, London, E.C.

WANTED, immediately, qualified Dispenser, age 30 or under, with good experience, for West-end business; short hours; no Sunday duty; outdoors. Address, Box 2,227, Sell's Advertising Offices, London.

ASSISTANT for Light Retail and Dispensing business: indoors. Apply, stating, age, height, references, salary required, and enclose carte, if convenient, to Thomas H. Hudson, 111 Prescot Road, Fairfield, Liverpool.

WANTED by middle of June a Dispenser for a Medical Practice; must be single, and must live at Surgery; light work. Apply, by letter, stating age, references, and salary expected, to Dr. Williams, Harrow.

WANTED, Representative, with connection, to call on Mineral-water Manufacturers and Confectioners with Essences, &c., for South of England. Apply, Newhams (Limited), Manufacturing Chemists, Sheffield.

WANTED, steady gentlemanly Assistant; aged 22 to 26 years; Minor qualification. Applicants please state salary required (indoors) and reference to Hugh Fairhurst & Co., Pharmaceutical Chemists, Warrington.

WANTED, single gentleman, as Manager; one accustomed to Prescribe and Extract; comfortable home. Age, height, salary, &c., to "South Wales," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CARLTON & PENTELOW, 18 Long Causeway, Peterborough, have a vacancy for a Junior Assistant; one accustomed to a Mixed business preferred; enclose photo; give full particulars, and state salary required (indoors).

ASSISTANT, for Light Retail and Dispensing; good character and writing indispensable; send photo, age, height, salary required, and two last references; total abstainer preferred. H. Clarke, 37 Biggin Street, Dover.

WANTED, a young man, not under 20, as Junior Assistant for Light Retail and Dispensing Business; two kept; comfortable home. Apply, with full particulars and salary required, to R. Feaver Clarke, 21 High Street, Gravesend.

TRAVELLER on Commission wanted by firm of manufacturers of Toilet Specialities, &c.; must have good paying connection and be now on the road. Address, "Chemist," c/o Lee & Nightingale, Advertising Agents, Liverpool.

WANTED, Junior Assistant in good class Retail and Dispensing business; indoors; must be gentlemanly and a good salesman indispensable; enclose photo, to be returned. Wynne Tighe & Son, 3 and 4 High Street, Exeter.

QUALIFIED Assistant (indoors), about 23, for a Dispensing business. Apply, stating age, height, salary, and references, also enclose carte if convenient (which will be returned), to K. Pears & Son, 16 Western Road, Brunswick Square, Brighton.

WANTED, qualified Assistant to manage branch shop in Glasgow; comfortable situation for a competent man. Apply, stating salary required, and giving references, to 93/15, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, qualified Assistant as Manager of Drug Stores in North of England; not under 40; abstainer preferred; would suit registered man. Experience and particulars to 95/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, an Assistant, for a Light Mixed Retail and Dispensing business; must be a careful neat Dispenser, and good Counterman. Apply, with references, stating age, height, and salary required, Meyler, Dispensing Chemist, Milford Haven.

WANTED, a Junior, about 20 or 21; rising salary; one who has served an apprenticeship in a good general business, Dispensing, &c.; Protestant; active and obliging; situation permanent. Apply, Mr. Fore, Chemist, 20 Market Street, Birkenhead.

ASSISTANT, qualified, about 25, as Manager of good Branch shop for July 16; Branch Post-office connected; must have unquestionable references as to character and business ability; one willing to devote himself to extend a growing business sought; salary commencing £45 (indoors), increasing with increased business; Christian and abstainer preferred; half-holiday; no Sunday duty. Start, Chemist, Long Eaton, Nottingham.

WANTED, about the second week in July, a complete Staff for a high-class West-end Drug-store, comprising an experienced and able Manager, first-class Dispensers, and smart Countermen; the manager and dispensers must have had a superior West-end experience, and be thoroughly competent to carry out all kinds of medical analyses. Apply by letter, stating full particulars (in confidence), 48/45, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS OPEN—Cont.

ASSISTANT, about 24. Apply, Morgan Brothers, 293 Pentonville Road, King's Cross.

WANTED, an Improver for a General Retail and Dispensing business; time for study allowed. Address, with full particulars, Hales, 77 Bridge Street, Warrington.

A QUALIFIED indoor Assistant as Senior; must be well up in Dispensing and the best class of business, and capable of taking charge in absence of principal. Apply, with all particulars and carte (to be returned), F. Endle, The Boscombe Pharmacy, Bournemouth.

WALES.—A qualified Assistant (in or out doors), for Mixed Country business; comfortable home; one seeking a permanency and able to speak Welsh preferred. Apply, stating age and salary required, together with references, to Jones & Sons, Chemists, Llanidloes.

ASSISTANT, unqualified, but well up in business; about 22 years; good references essential; indoors; one only kept. Please state in first communication age, height, previous experience, salary required, and enclose carte (to be returned), A. Higgs, Chemist, Kingston, S.W.

WANTED, Manager (qualified), good Counterman indispensable; must be active and obliging, and of good address; must have undeniable references. State age, height, experience, &c., and enclose carte, 97 3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

QUALIFIED Assistant; splendid opportunity for a pushing single man to obtain a first-class Dispensing business on very easy terms; position centre of a fashionable South-coast town; every opportunity given to a suitable man. Letters only, B., c/o Mr. Wells, Castle Road, Hastings.

DISPENSER and Bookkeeper wanted by a Doctor; outdoors; hours from 3 to 9 o'clock; must be accurate, industrious, obliging, and good penman. Write, stating age, experience, references, and salary required, to "Doctor," Mr. Pinchen, Chemist, 229 High Rd., Kilburn, N.W.

PARIS.—A trustworthy Dispenser of irreproachable character, speaking French fluently, permanency, outdoors, in a first-class Pharmacy; liberal salary. Send age, height, references, photo (to be returned), to AX2, Poste Restante, Bureau 9, Paris. Also state when disengaged.

FROM about the beginning of July, for 3 months, or a possible permanency, a Senior Assistant, thoroughly competent, qualified; please give full particulars as to age, experience, &c.; within easy distance of London. "Epistamenos," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IMMEDIATELY.—Indoors; for East London business; Junior Assistant; must have good references; hours 8.30 to 10; half day and evening per week off. Apply, stating qualifications (if any), age, height, and salary required, to Mabyn, 1 King David Lane, Shadwell, London, E. Also an Improver wanted.

IMMEDIATELY, a Manager and Junior for a modern high-class Cash business in a good provincial town; a knowledge of Photographic trade necessary; only first-class men with best references need apply; outdoors; salary and commission. Address, "Reganam," c/o Warner Bros., Stationers, &c., Finsbury Pavement, E.C.

WANTED, about 14th June, a smart reliable Assistant (indoors, others kept), of good personal appearance and address, in first-class Dispensing and Mixed Country business; good all-round experience essential; hours easy. State age, height, salary required, and experience, Dixon, Chemist, East Grinstead.

QUALIFIED Assistant for small Branch, Light Retail; indoors (or married, to live on premises); must be pushing, energetic, able to Prescribe, and thoroughly reliable; permanency; hours 8 to 8; no Sunday duty. Full particulars as to experience, salary, reference, &c., photo, "Rhenm," Messrs. Wright, Layman & Umney, 50 Southwark Street, London.

WANTED, Manager; qualified; aged about 30; good Counterman indispensable; must be active and obliging, and of good address; only those seeking a permanency treated with; state age, height, experience, and enclose carte; character and ability must stand strictest investigation. Apply, J. & J. Thompson & Co. (Lim.), 192 Manchester Street, Oldham.

WANTED, for a Medical Hall in Dublin (where 3 assistants are kept), an Assistant of good appearance and address, well up in Compounding and Retail departments; must have first-class experience and references; an excellent opening for one seeking the Irish qualifications. State age, experience, and salary expected (indoors), also enclose photo, to 53/45, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED.

See important announcement on front page of this Supplement.

ASSISTANT; temporary or permanent. J. H., 13 Arthur Street, Gloucester.

JUNIOR; 23; 5 ft. 10 in.; 7 years' experience, Mixed Business. Baines, Horbury, Yorks.

TEMPORARY Manager or Senior; qualified. "Locum," 18 Madoc Street, Llandudno.

MANAGER or Locum-tenens; qualified. "Spes," 30 Eiton Street, Matthias Road, N.

MANAGER or Locum-tenens (qualified); Midlands or South. L., 62 King Street, Dudley.

LOCUM or Temporary; summer months; qualified. P., 24 Algernon Road, Lewisham, S.E.

WANTED, Evening Duty one or two nights weekly. F. C. C., 9A New Street, W.C.

JUNIOR; 21; 5 years' experience; London preferred. "Radix," 135 High Street, Hounslow.

LOCUM-TENENS; disengaged; aged 28; good Extractor. 2 Horton Street, Lewisham, S.E.

ASSISTANT; qualified; 25; London experience; outdoors. "Chemist," 33 Howe Street, Carlisle.

SURGEON'S Dispenser or Locum; good references. Hoare, 6 North Crescent, Bedford Square.

CLERK, or position of trust; experienced; Drugs, Sundries; export. M., 57 Pentonville Road, N.

SURGEON'S Dispenser or Chemist's Assistant; married; disengaged; Maddokk, 139 York Road, S.

ASSISTANT; 25; good Prescriber, Extractor; North preferred. Smith, 134 Deane Road, Bolton.

DISENGAGED; outdoors; 7 years' experience. M., 14 Richmond Gardens, Shepherd's Bush, W.

ASSISTANT, as Dispenser; 24; abstainer; disengaged. W. T., 29 Congreve Street, Birmingham.

QUALIFIED; 26; experience and references; outdoors. Lawson, 47 St. Vincent Street, Glasgow.

ASSISTANT; 21; first-class experience and references. "Statim," 12 Melville Street, Gainsborough.

ASSISTANT; 24; 4 years last situation; unqualified; outdoors preferred. Taylor, Coggeshall, Essex.

DISPENSER to Surgeon (midwifery); outdoors; good references; disengaged. Hooper, Ely, Cambs.

LOCUM, Part-time, or Manager; qualified; Major; prescriber. J. B., 54 Kenningball Road, Clapton, N.E.

JUNIOR; 22; height 5 ft. 9 in.; 5 years' experience; good reference. Evans, 11 High Street, Cardigan.

MANAGER, Assistant, or Locum; qualified; first-class experience. W. W., Post Office, Naburn, York.

LOCUM, Manager. Morgan, c/o Clarke, Chemist, Malvern, June 6th, afterwards Bedford Street, Hereford.

LOCUM-TENENS; qualified; long experience; highest references. "Chemist," 8 Church Street, Salisbury.

IMPROVER.—Knowledge of Postal and Telegraph work; abstainer. Schofield, Regent Square, Northampton.

ASSISTANT; 22½; qualified; London; 6 years' experience, London included. Wicks, Main Street, Keswick.

JUNIOR; 21; 4 years' good-class experience; disengaged after June 16. Edwards, c/o Mr. Lasham, Romford, Essex.

ASSISTANT; 23; tall; disengaged June 17; good experience. Lowe, Boulevard Pharmacy, Weston-super-Mare.

ASSISTANT; 24; pushing, trustworthy; Prescriber. "Chemicus," 215 Leytonstone Road, Stratford, London, E.

ASSISTANT for 4 months or less; aged 30; good experience; French and Italian. T. P., 17 Borwick Street, Pimlico.

COMMISSION wanted by a gentleman calling on London and suburban Chemists; good connection. 99/29, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED by qualified married man permanent engagement as Manager; accustomed to Stores, Dispensing, and Agricultural trade. "Chemist," 4 New Road, Oxford.

SOUTH AFRICA (inland); English qualification; experienced; good address; height 5 ft. 10 in.; agreement or otherwise; good terms only. Full particulars to Jones, Post Office, Olney, England.

MANAGER or Locum-Tenens; married; 30 years' good and varied experience; Extractor; good Prescriber; qualified, energetic; permanency preferred. "Oxford," 127 Queen's Cross, Dudley.

LADY, 23 (Apothecaries' Hall certificate), with Hospital experience, requires a position as Dispenser; resident preferred. Address, E. H. S., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AGENCY wanted, for Vienna and Austria; good connections with Druggists, Wholesale Grocers, Spinning and similar Mills; best references. Address, Leopold Baumhor, Ferdinandstrasse, 15 Vienna II.

JUNIOR, 22; London, or nice city; about the second week in July; over 7 years' good experience, including Dispensing; abstainer. Write, 95/8, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED—Cont.

ASSISTANT; qualified; good experience and references; 24. A. R., 13 Brunswick Square, W.C.

EVENING Situation as Assistant or Dispenser, &c.; qualified; terms moderate. H. M., 72 Westminster Bridge Road.

DISPENSER; qualified; aged 23; 11 years' experience; satisfactory reference. "Chemist," Brechfa, Carmarthen.

MANAGER or Assistant; qualified; 52; married; experienced; trustworthy. 36 Wrexham Fechan, Wrexham.

MANAGER; married; aged 36; qualified; 5 ft. 11 in.; varied experience. Shepherd, Marchouse, Cockermouth.

AS Manager; excellent references; disengaged 17th inst.; country preferred. F., 4 Oakley Crescent, City Road, E.C.

PHOTOGRAPHIC Chemist's outdoor Assistant; aged 35; good references. "Alpha," 3 Villa Road, Brixton, S.W.

ASSISTANT; town or country; experienced; good Extractor; disengaged. Frank Taylor, 3 Richmond Road Ealing.

YOUTH (17) seeks situation in Hospital or Wholesale firm; 12 months' hospital experience. Preece, 129 Marlborough Road, N.

DISENGAGED; Store Experience; aged 28; unqualified; outdoors; good references. C., 8 Mordaunt Street, Brixton, S.W

DISPENSER to Surgeon or Assistant to Chemist; 24; tall; 8 years' experience; immediate. J. H., 102 Southwark Bridge Road.

LOCUM; disengaged; Dispenser, Prescriber; excellent references; qualified. B., c/o Ballard, Chemist, 126 Newington Canseway.

ASSISTANT; 26; unqualified; experienced; disengaged; good references. "Statim," 17 Bishopton Lane, Stockton-on-Tees.

WHOLESALE; young; 7 years' references; smart. Apply, 96 36, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TEMPORARY Manager or Assistant; qualified; 25; first-class experience; disengaged about 6th inst. Sharman, Leighton Buzzard.

MANAGER or Assistant; qualified; married; aged 40; thoroughly experienced; disengaged. Y. Z., 26 High Street, Abergavenny.

ASSISTANT; 22; Minor qualification; disengaged; 6 years' good experience; good references. Bentley, 20 Oak Street, Keighley.

DISPENSER to Surgeons; to live at surgery; town or country; disengaged June 18th. "Dispenser," Surgery, Byron Hill, Harrow.

ASSISTANT; 24; Dispensing and Light Retail; good references; South-West preferred. Broom, 12 Courtenay Street, Newton Abbot.

ASSISTANT; aged 22; height 5 ft. 10 in.; good experience; now disengaged; North preferred. "Spes," 74 King's Road, Canton, Cardiff.

QUALIFIED; 25; 5 ft. 9½ in.; first-class London experience; London or Birmingham preferred. "Phenacetin," 37 Northbrook Street, Newbury.

JUNIOR; 21; 4½ years' experience, Surgeon's Dispensing; London or suburbs preferred. Catchpole, Lyndhurst, Woodlands Road, York Town, Surrey.

LOCUM, Branch Manager, or Assistant; Minor; 27; disengaged; varied experience; good references. "Statim," 75 Great Mersey Street, Liverpool.

JUNIOR; aged 19; height 5 ft. 9½ in.; 4½ years' experience; Manchester preferred. 92/22, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER; thoroughly experienced; Drugs, Sundries, and Patent Medicines; good connection; first-class references. S., 19 Daleview Road, Stamford Hill, N.

WHOLESALE, Wets, Drys, Export Counters (or outdoor Retail or Perfumery); long experience in all; excellent references. S., 113 Ferndale Road, Clapham.

ASSISTANT; outdoors; fully experienced in all branches; highest references; aged 30; medium height; disengaged. Campbell, 47 Stoney Stanton Road, Coventry.

AS Manager or Senior; qualified; 36; large managing experience; cash trade preferred. "Metrop," c/o Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AS Assistant in good-class Dispensing business; Manchester district preferred; 7 years in present situation; good references; unqualified. Peace, 81 South Street, Rochdale.

MANAGER. Active Part (or Locum); married; 27; qualified, energetic, reliable, good Prescriber: character, &c., stand strictest investigation; £2; house, &c., free. Day, 135 Warwick Road, West Kensington.

MANAGER (married)—Wanted, situation as Manager; country or seaside preferred (Isle of Man); accustomed to Agricultural, Retail, and Dispensing business; Tooth-extractor. D., 25 High Street, Leamington.

WHOLESALE or Mixed; 12 years' experience; 8 years last situation, Foreman; Wet or Dry Counter. Thos. Read, 13 Hawthorn Street, Totterdown, Bristol.

ASSISTANT (qualified); tall; 26; first-class London and South-coast experience; outdoors; South, with time for recreation, preferred; salary moderate. A. P. S., Rose Cottage, Dorrington, near Shrewsbury.

WHOLESALE Assistant requires engagement in Laboratory or Warehouse; experience of Soluble and Confectionery Essence Manufacture; would travel. "Vaccine," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE.—As Wet Counterman, Town Representative, or position of trust in a London house; over 9 years' Wholesale, besides Retail experience; highest references; disengaged. Brooks, 16 Dunley Road, Stamford Hill, N.

IRELAND.—Gentleman, residing in Dublin, having extensive high-class connection among Chemists and Medical Profession throughout Ireland, desires agency for good English house. Address, 97/40, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A TRAVELLER of old-established firm, having large connection amongst Chemists in Town and Country, is desirous of representing another good house willing to share travelling expenses. 48/76, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AUSTRALIAN Representative of London firm of high standing could represent in addition important commercial or estate interests in Australia; integrity and ability amply vouched for. Address, Austral, c/o Leathwait & Simmons, 1 Pope's Head Alley, London, E.C.

AS Assistant or Branch Manager; temporary or permanent; 32; thoroughly competent; excellent references; successful Prescriber; experience, London 10 years' select Retail and Dispensing, 2 years' modern Store; country 6 months' all-round; disengaged. "Quantocks," 17 Eastover, Bridgwater, Somerset.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

See important announcement on front page of this Supplement.

SHARES.—For Sale, 25 £1 shares in the Chemists' Association (Limited). Apply to "Share," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO CHEMISTS AND DENTISTS.

MECHANICAL Dentistry of every description undertaken by a practical mechanician of 20 years' experience; first-class work at very moderate terms; strict attention given to all work; price list sent on application. H A., 3 Cumberland Street, Pimlico, London.

WANTED, one wide-awake Chemist in each locality, who has a good Doctors' connection, to correspond with the undersigned for details of a perfected system of Advertising a New and Modern Speciality in a thoroughly respectable and ethical manner; no Rip Van Winkles considered! Address, 10/80, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LARGE Hydraulic Tincture Press, suitable for manufacturing chemist; large quantity of Winchesters, Hampers; several new and second-hand Soda Water and Filling Machines; enamelled Syrup Pans; cyclostyle; two 500-gallon vats; also a large quantity of Essences, Essential Oils, Pharmaceutical Drugs, &c.; the above may be purchased cheap for cash. Apply, 94/8, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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THE whole of the Fittings of 4 first-class Chemists' shops, including 6 excellent ranges of solid mahogany drawers, cut knobs, bevelled edge labels, with lockers and shelving to match, solid mahogany dispensing-screen, with bevelled mirror in centre, sponge-case at bottom; 6 massive mahogany counters, wall cases, counter-cases, and desks, latest designs; all in splendid condition. Shops fitted up by most experienced men in all parts of the country. Edwards & Co., Chemists' Fitters, 106 Whitechapel, Liverpool.

CHEMISTS' ADVT. BLOCKS.

ED. J. BURROW (Ford Prizeman, Exhibitor Royal Society of Artists) quotes artistic metal surface blocks of business premises at lowest cost. Also blocks of Chemists' specialities, and specially-designed illustrations for advertisements or circulars submitted on receipt of detail of speciality. Seven years' experience in pharmacy.
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THE CHEMIST & DRUGGIST

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"The Indispensable weekly journal of the Trade."—*Extract from Mr. L. Atkinson's speech at the annual meeting of the Pharmaceutical Society.*

SINGLE COPIES, OR ANY NUMBER LESS THAN A COMPLETE YEAR, 4d. EACH.

May 5.

English, Irish, Scotch, French, and Foreign and Colonial Pharmaceutical News.

Report of the Pharmaceutical Council Meeting.

Preliminary Examination Results, Names of Successful Candidates.

An Illustrated Description of Messrs. Idris & Co.'s New Factory.

LEGAL REPORTS—Partnership Dispute—Jocular Statement about Bovril - Breach of Contract in the Alkali Trade.

EDITORIAL COMMENTS on the Winter's Work—The Menthol Market—Pharmaceutical Affairs - Pharmaceutical Society *v.* Crimson—Scheduling of Carbolic Acid—Kal. Bichrom *v.* Pot. Bichrom—German Chemical Shares—American Customs Views on Drugs.

Pharmaceutical Society's Annual Report.
Bankruptcy Reports—Trade Notes—New Companies—Parliamentary News.

Trade Report.

Correspondence, including Replies to Legal and Miscellaneous enquiries.

May 12.

All the Home and Foreign Pharmaceutical News of the Week—Special Australasian Notes — Pharmaceutical Society of Ireland, Council Meeting.

Illustrated Article on Chemists and Photography.

Legal Reports—Revoking a Patent for Cancer Cure—Mellin *v.* White—Medical Botanist and his Diploma.

Bankruptcy Reports—Trade Notes—Business Changes

EDITORIAL COMMENTS on the Pharmaceutical Council Election—Photographic Chemistry—Advertisers and the Landscape—Veterinary Chemist—Voices from Afar.

Pill Proprietors Reply to Lord Rosebery.

Reports of the Chemical Society and of the Chemists' Assistants' Association, and of the Sunderland Chemists' Association.

Registration of Six New Companies.

Obituary Notice of Mr. J. B. L. Mackay, and others.

Trade Reports and Telegrams from Amsterdam, Hamburg, New York, Messina, Liverpool—Full Reports of the London Drug Market.

CORRESPONDENCE on the Spirit Tax, the Council Election, Making Ointments, Counter Practice.

Poetry—The Lost Poets—Carbolic Acid.

Dispensing Notes.

Answers to about Forty Trade Queries.

May 19.

Students' Monthly Prize Analysis Competition, Results and Notes.

English and Scotch General News Items.

French and Foreign and Colonial Pharmaceutical Trade and Scientific News.

Notes from the Australian Colonies.

Burnley Chemists and the Extra Duty on Spirits.

Trade Notes and Novelties.

Financial Items, New Company Reports, Dividends, Bankruptcies, and Gazette News.

Society of Chemical Industry Meeting.

The Experiences of a Photographic Chemist.

Prize Rhymes on the Pharmacopœia Formulæ.

EDITORIAL NOTES on Chemists and the Spirit Duty—Glycero-Phosphates.

Commentary and Personal.

The Analysis of St. Jacobs Oil.

Some Particulars concerning Anglo-Parisian Pharmacies.

List and Reviews of New Books published.

Detailed Foreign and Home Drug Market Report, with Special Late Telegraphic Information and Prices.

Answers to Correspondents—Letters on Subjects of Trade Interest—Replies to Legal Queries—Dispensing Notes and Formulæ—Information Supplied and Wanted, and Diary for following Week.

Interesting Notes on Dispensing Methods, by a Member of the Irish Pharmaceutical Society.

Rules for Dispensers at the Army and Navy Co-operative Society.

May 26. (48 *pages.*)

Chemists and Death-certificates—Shop-hours—Free Research Laboratory—Dyed Sugar—Infringement of Medicine-stamp Act—Adulterated Drugs—Importation of Patent Medicines into Turkey—Mineral-water Trade of Hungary—Pharmacy and Mutual Help in France—A French Widow's Clause, and a Score of other British and Foreign Items of News.

Personalities, with Portrait.

Obituary Notice of Mr. Wm. Pinkerton, and other Chemists.

Special Report of the 53rd Annual Meeting of the Pharmaceutical Society, and of the Annual Dinner.

The Ameer's Physician; an Illustrated Interview with Dr. John A. Gray, late of Cabul.

FORMULÆ for Soap-powder, Brilliantine, Butter-powder, Cognac Essence, Furniture-polish, Ink-extractor, Japanese Cleansing-cream, Kid Reviver and Ladies' Blacking, Tobacco Sheep-dip, &c.

Pharmacopœia Rhymes (second part).

Interview with Mr. Cumming Macfiona, M.P., on the Carbolic-acid Question (with portrait).

Mr. Edward Evans's Silver Wedding (with portrait).

A Window-dressing Campaign (illustrated).

REVIEWS.

Meeting of the Chemical Society.

EDITORIAL COMMENTS on the Pharmaceutical Society's Annual Meeting—Foreign Competitors—England and the World's Fair—Adulteration of Cloves—Essential Oil Catechism—Spread Eagle Pharmacopœia—Creosote or Creasote—American Institutes and Diplomas—Imperial Institute Research—A New Element Pharmacy in Japan—Analysis of 12,000 Prescriptions.

LEGAL REPORTS—What is an Open Shop?—Syphon Difficulty—Natural Mineral Waters at Olympia—Laudanum *sine* Opio—Chemicals and the Telephone—Selling a Business—Bankruptcy Reports.

Scientific Notes.

Full Report of the London Drug Sales, and Drug Reports from all parts of the world.

Correspondence—Poetry—Dispensing Notes, and Answers to Inquirers, &c.

June 2.

The usual full reports of English, Irish, Scotch, French, and Foreign News—most of it from special correspondents.

LEGAL REPORTS:—Keeping Open Shop—Medicine-stamp Duty on Gregory's Powder and Homœopathic Medicines—Compound Licorice Powder *sine* Sulphur.

EDITORIAL COMMENTS on Poisonings—Dr. Attfield's Pharmacopœia Report—Medicines we Dispense—Opium Market—A New Coffee—Klorodyne—The Open Shop Question—A New Patented Medicine—The Blue List.

FORMULÆ for Tooth Powders—Cold Cream Furniture Paste—Toilet Cream—Diarrhœa Mixture—Powder for Rectifying Sour Beer—Snuffs for Cold in the Head—Application for Enlarged Glands—Glycerine Jelly.

Medical Gleanings — Scientific Notes — Practical Notes — Wills of Deceased Chemists.

Full Reports of the Mincing Lane Drug Markets.

CORRESPONDENCE:—Letters on Powell's Balsam from the Makers—From the Registrar of the Medical Council on Dentists Advertising.—The Irish President's Speech — Creasote — Veterinary Chemists — Pharmacopœia Rhymes.

Dispensing Notes—Comments on Difficulties.

Bankruptcy Reports—Trade Notes—New Companies—Patents—Trade Marks—Marriages and Deaths.

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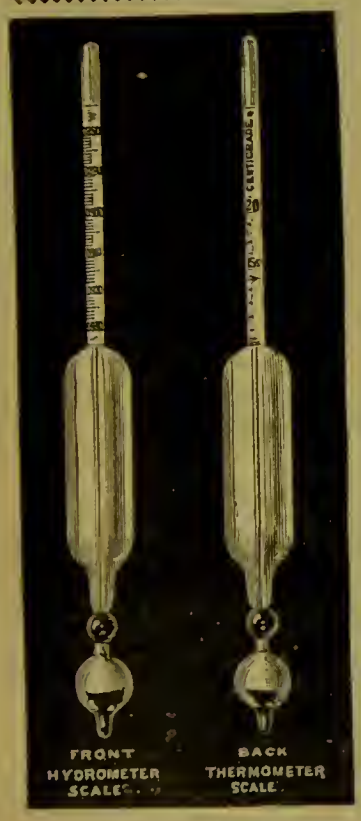

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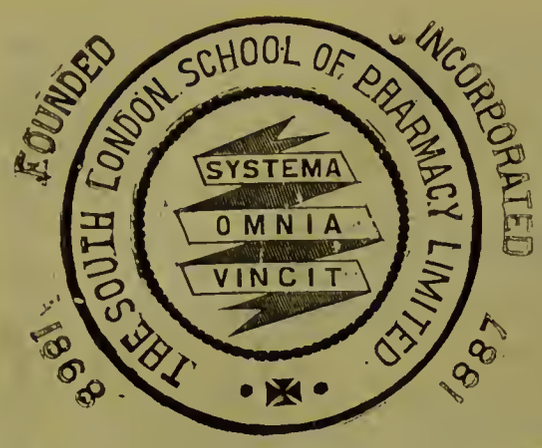

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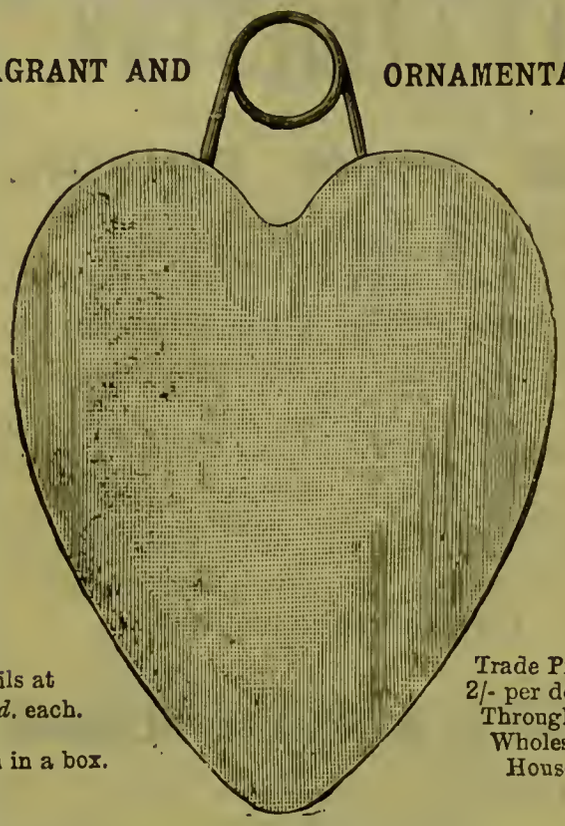

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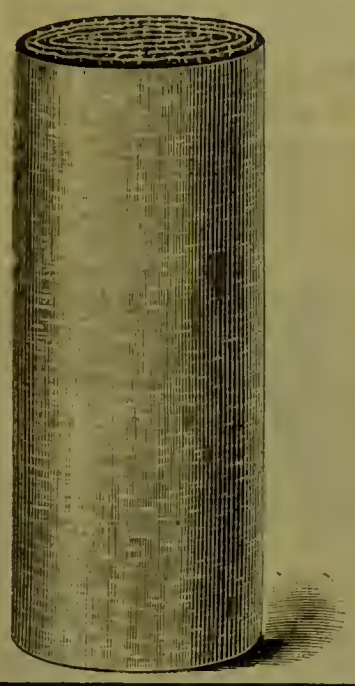

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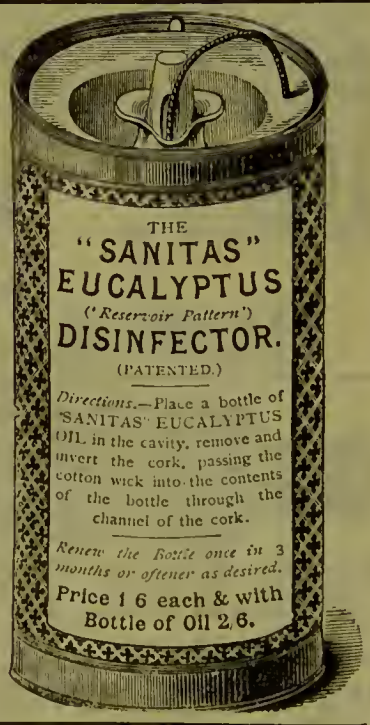


This appliance is constructed on the same principle as the ordinary "Sanitas Eucalyptus Disinfector," but it is much larger and is provided with a Reservoir of the "Sanitas Eucalyptus Oil" in the shape of a Bottle of that liquid, which is placed in the cavity of the absorbent diffuser. The latter is fed with the Oil by means of a wick which is inserted in the diffuser, and should be placed in the contents of the bottle, passing through the channel of the reversible cork with which the latter is specially provided.

In practice it will be found that although the absorbent diffuser quickly soaks up the contents of the first bottle, it will steadily continue to give off the vapour of the Oil for a long time afterwards, and the contents of succeeding bottles will last much longer. A new bottle of "Sanitas Eucalyptus Oil" should be placed in the cavity once in every two or three months, or oftener if desired.

The price of the Appliance, complete with Bottle of "Sanitas Eucalyptus Oil," is **2/6**, *or without the latter* **1/6**.

THE "ANTI-DIPHTHERITE."

We have undertaken the Sole Agency for the supply of this patented Appliance to the Trade and Public Institutions. It may be briefly described as affording a means of inhaling purified and sterilised air available for use by all who come into contact with Infection, and particularly cases of Diphtheria, Sore Throat, Bronchitis, and Scarlet Fever. The "Anti-Diphtherite" is an appliance in the nature of a Respirator, in which the air is inhaled from the back of the wearer, and is drawn through a medium soaked with "Sanitas Disinfecting Fluid." Full particulars will be sent on Application. Price **21/-** each.

THE SANITAS COMPANY, LIMITED,

LETCHFORD'S BUILDINGS, THREE COLT LANE, BETHNAL GREEN, LONDON, E.

C. T. KINGZETT, F.I.C., F.C.S., *Managing Director.*

TRADE MARK. TRADE MARK

GOVERNMENT DISINFECTANTS.

PINK CARBOLIC POWDER, 15% Strength, as required by the Vestries.

IN ENAMELLED TINS, PERFORATED LIDS.
1-lb., 6d. size ... ... 42/- per gross.
2-lb., 1/- „ ... ... 65/- „

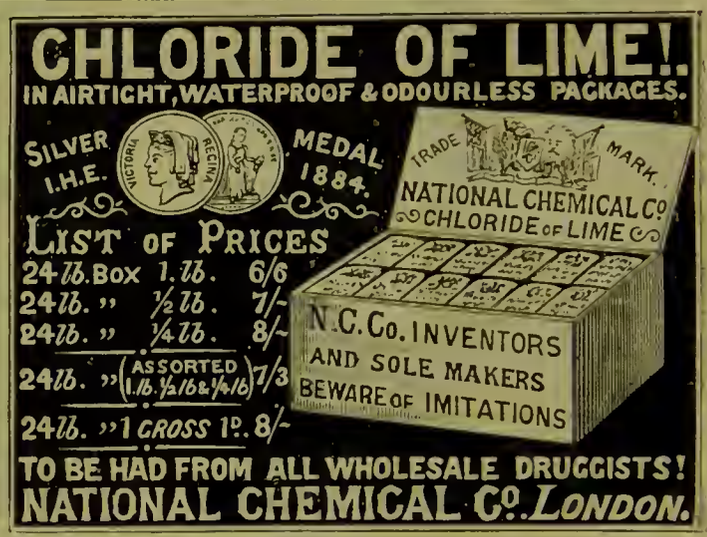
IN LABELLED TINS, PERFORATED LIDS.
2d. size... 9/- per gross. | 1-lb. ... 36/- per gross.
4d. „ ... 16/- „ | 2-lb. ... 54/- „

CHLORIDE OF LIME. In Damp-proof, Smell-proof, not Corroding Metal-covered Boxes.
2d. size ... 9/6 per gross. | 4d. size ... 23/6 per gross. | 6d. size ... 44/6 per gross. | 1/- size ... 54/- per gross.

EUCALYPTUS FLUID. EUCALYPTUS SANITARY TABLETS (To Hang up on any Nail).

PRICES ON APPLICATION TO THE MANUFACTURERS—

THE ELEPHANT DISINFECTANT CO., 34A PENROSE STREET, WALWORTH.



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LARGEST MAKERS IN THE WORLD OF

HORSE & CATTLE MEDICINES.

THE GREATEST ANIMAL RESTORATIVE OF THE AGE.

For Fret, Colic, or Gripes in Horses, Hoven or Blown Cattle and Sheep, and General Debility in Stock. Of exceptional value for Colds, Chills, Scour, Diarrhœa, &c., &c.

Price 1s. 9d. per Bottle; 20s. per dozen.

THE CHEMICAL EXTRACT.

For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2s. 6d., 3s. 6d., and 7s. per bot.

THE CASEODYNE.

Used as Laudanum for parturition in Mares, Cows, and Ewes, when there is great pain exhibited with feverish symptoms. Highly beneficial for Inflammatory Colic or Enteritis, and for severe forms of Diarrhœa.

Price 3s. 6d. per Large Bottle.

THE RED DRENCH.

For Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Pleurisy, Hidebound, Red Water, &c. For cleansing and checking feverish symptoms in Cows and Ewes after parturition.

Price (Cows) 13s. per doz.; (Ewes) 3s. 6d. per doz.

THE "ORIGINAL"
STOCK-BREEDER'S MEDICINE CHESTS,
For Horses, Cattle, and Sheep. Prices, £1 8s 9d. and £2 16s. 6d.

THE "ORIGINAL"
HORSE-KEEPER'S MEDICINE CHESTS,
For all ailments in Horses. Prices, £1 10s. and £2 17s. 6d.

ROYAL ANIMAL MEDICINE MANUFACTORY, 22 DORSET ST., LONDON, W.

Liberal Discounts to Foreign Buyers. Trade Terms and full particulars on application.
Attractive Show-cards and Handbills sent with each order.

BLACK

DAY'S DRINK

1/8 per bottle, or 19/- per dozen, is the price of

DAY'S BLACK DRINK.

Only genuine from

DAY & SONS, CREWE.

What's good for

BODILY PAIN?

DAY'S OIL OF THE NIGHT

The People's Embrocative Balm for Sprains, Muscular Weakness, Rheumatism, Lumbago, Cramp, Sore Throat from Cold, Sciatica, &c., and all Aches, Pains, and Soreness.

Send for "Day's Oil of the Night" terms framed to prevent CUTTING.

Chemists can have a Single Bottle direct. Price 1/1½ and 2/9 per Bottle.

DAY & SONS, CREWE, CHESHIRE.

DAY'S OIL of the NIGHT.

You can rely on it.

And you don't enjoy the privilege of selling it for nothing.

The Retailer has his profit.

ODAMS' SHEEP DIPS.

CATTLE WASHES, & DISINFECTANTS,

ODAMS' FERTILIZERS FOR EVERY CROP AND FOR ALL CLIMATES.

MANUFACTURED BY

ODAMS' MANURE AND CHEMICAL COMPANY, LIMITED

(ESTABLISHED HALF A CENTURY),

Manufacturers of Fertilizers by Special Appointment to Her Majesty the Queen.

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Chief Offices—116 FENCHURCH STREET, LONDON.

Manufactory—**Odams' Wharf, Victoria Docks, E.** *Branch Offices*—**County Chambers, Queen Street, Exeter.**
Branch Manufactory—**Ebford, Topsham, Devonshire.** *Branch Manager*—**J. P. RIPPON.**

NOTE.—For Prices and Agencies in Unrepresented Districts at Home and Abroad write to the Secretary.

TO THE WEED KILLER TRADE.

For Destroying Weeds, Moss, &c., on Garden Walks, Carriage Drives, Roads, Meadows, &c.

We desire to point out the special advantages which the sale of our "Acme" Weed Killer affords the Trade.

1. The "Acme" Weed Killer is used in the gardens and on the estates of the Gentry everywhere, and by Corporations and Burial Boards in Parks' Cemeteries, &c.
2. Our Retail Prices are such as will induce a ready sale, and we make no charge for 1 and 2 gallon tins.
3. We pay carriage on twelve 1-gall. tins, or on three 2 and six 1 gall. tins, and on 10 galls. in drums and upwards, to any Station or Port in Great Britain.
4. Drums and casks are charged at cost price. Full price allowed when returned.

Trade and Export Terms on application. The most Liberal Terms to the Trade.

RETAIL PRICES.—In 1 and 2 gallon tins, **2/-** per gallon (tins included); in 5-gallon drums, **1/6** per gallon; 10, 15, and 20 gallons, **1/4** per gallon; in 40-gallon casks, **1/8** per gallon.

TESTIMONIALS received from Mr. HEAD, Crystal Palace; Mr. IRWIN LYNCH, Cambridge Botanic Gardens; and others.

THE "ACME" WEED KILLER, FOR CHEAPNESS AND EFFICIENCY, HAS WON FOR ITSELF A NAME FAR ABOVE ALL OTHERS.

SOLE PROPRIETORS AND MANUFACTURERS—

THE ACME CHEMICAL CO., LIM., Tonbridge, Kent; & Carlton St., Bolton, Lancashire.

EUREKA WEED KILLER.

Safe, Effective, Lasting, Most Concentrated. Mixes 1 to 50.

HAYWARD'S SHEEP DIPS.

WELL ADVERTISED & GENUINE DIPS.

MAGGOT FLY POWDER, FOOT ROT OINTMENT, &c., &c.

List and Prices on Application. Attractive Printed Matter.

ONLY ADDRESS—

TOMLINSON & HAYWARD, MINT ST. CHEMICAL WORKS, LINCOLN.

ESTABLISHED 1842.

ESTD. 1788.

12 Bride Lane,
London,
April 18, 1894.

To my Business Friends,

I thank you warmly for the high esteem in which I constantly hear that my firm is held, and it shall be my earnest endeavour to merit a continuance of this regard.

Last year I had to bring actions against a few Chemists and others for acts of gross substitution. I give below an example.

Such conduct is no credit to our Profession, and is a loss as well to the neighbouring Chemists as myself. I am bound to stop it. If you are aware of any person acting in this manner may I ask you to warn him? or if information be given to me I will hold it absolutely confidential, and take independent steps to prevent the fraud.

Yours faithfully,
THOMAS KEATING.

KEATING *v.* WRIGHT (NEWCASTLE).

MR. JUSTICE NORTH, on the 14th February this year, in giving Judgment, said: "There was no difference in principle between verbal representations and representations in writing for the purpose of passing off goods of one person as those of another. . . . He therefore granted an Injunction to restrain the Defendant from selling or offering for sale, as Keating's Insect Powder, powder not made by the Plaintiff, and ordered the Defendant to pay the costs of the action."

EXCHANGE COLUMN.

TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of ½d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate: or if he pays 1d. per word his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word—as, *e.g.*, £1 10*s.* 6*d.*

DEPOSIT OF MONEY.—In order to ensure safety we offer the following system:—The purchaser of anything advertised in the Exchange Column may remit the amount to us, accompanied by a commission of 6*d.* if the amount is £3 or under; and 1*s.* if over that sum. We acknowledge receipt of deposit to both parties, and hold the money until we are satisfied that either the goods are returned to their original owner or the purchase is completed.

Postal orders and cheques sent as deposit must be made payable to Edward Halse, and crossed "Martin's Bank Limited)."

FOR DISPOSAL.

Drugs and Chemicals.

One 100 oz. tin Whiffen's quinine, at 1*s.* 0½*d.* nett: two 25-oz. tins Howards', 1*s.* 3*d* nett. 95/2. Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

Educational.

Books, apparatus, &c., for Minor; very cheap. Davy, Chemist, Worksop.

Formulæ.

For sale, 130 well-tried recipes, neatly copied in book, post, 1*s.* 6*d.* Tully, Chemist, Hastings.

Shop Fittings.

Chemists' shop fittings, second hand.—One range of mahogany-fronted drawers and cupboards, about 19 ft. long; 2 other nests, about 6 ft. long each; mahogany-top counter, with return end, plate-glass doors in front, and well fitted with drawers behind; dispensing-screen, desk and case; 5 ft. bent plate-glass counter case; and glass wall case; price £65 the lot, or would sell any part. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Literature.

Chemist and Druggist, 1837-1891, volumes xxx to xxxix (inclusive); 2*s.* 6*d.* volume, or 15*s.* lot. Gyles, 20 Connaught Road, Folkestone.

Chemist and Druggist, May, 1891, to January, 1894, for disposal; "Art of Dispensing," "B P.," and latest "Attfield" wanted. Perks, Beeston.

Miscellaneous

No. 6 Oertling's balance, 16-inch beam, nearly new, with weights kilo. to milligramme; cost £19 15*s.*; what offers? Jarvis, Chemist, Handsworth, Birmingham.

A quantity of aconite, belladonna, and other medicinal plants for sale, in good condition, for transplanting. A. B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

Pindar hand rotary pill-machine, 1½ grain pill-kneader; both in good condition, piper faulty; lot 5*l.*; 2 lbs. gum opii tinct. opt., 11*s.* lb.; 2 lbs. iodine, 11*s.* 3*d.* lb.; 2½-lb. pot iodide Ang., 10*s.* 6*d.* lb.; 2 1-lb. bottles pulv. iodoformi, 13*s.* lb.; 3 1-oz. original bottles Smith's morph. acet., 5*s.* oz.; 2 original bottles ol. menth. pip., 12*s.* lb. H. G. H., Chemist, 6 Prebend Gardens, Chiswick, W.

WANTED.

Small machine for powdering blue vitriol; cheap; cash. Morris, Chemist, Thame.

Chemist and Druggist, 1892, July 16, September 17; 1893, April 15. Stephen, Macduff.

Platinum crucible; state capacity, condition, and lowest price. Jackson, Stratford Square, Nottingham.

Latest editions Attfield's and Roscoe's "Chemistry," and Pereira's "Selecta"; prices? Thompson, Bron-y-Garn, Maesteg.

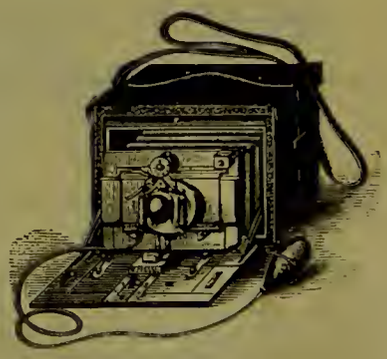
Mahogany shopdoor, state size; also wire sponge-stand. Walker, Upper Brighton, Cheshire.

Glass specie-jar, 26 by 14 diameter; jalap, Peruvian bark, or sarsaparilla; with arms; cheap. "Chemicus," 5 Bathurst Street, W.

Two or three dozen second-hand plain mahogany-front drawers, with glass knobs; frontage measuring 11 × 6 in. Kirkup, Chemist, Newcastle.

Chemist and Druggist for September 19, 1891, and January 14, 1893; 8*d.* offered for the two copies. H. P., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EASTMAN'S . . . . . KODAKS.



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All the Kodaks are sold ready loaded with Spools of Film containing from 24 to 60 exposures. It is not necessary to expose the whole spool before development; one or more exposures may be cut off, and the remainder of the spool re-connected for future use. Rolls of film, or glass plates can be used at will with the "Junior," "Folding" and "C Ordinary" and "C Daylight" Kodaks. Prices from £1 6*s.* to £22 1*s.*

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MANUFACTURERS.

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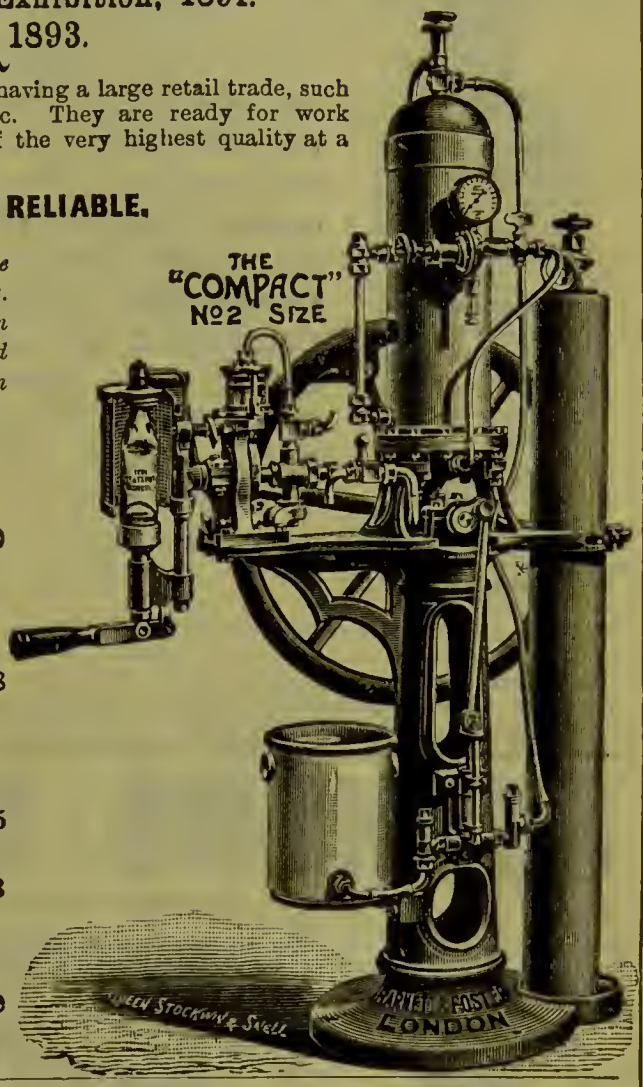
Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

NO DANGER. NO MESS. PERFECTLY RELIABLE.

NOTE.—These Machines are not toys, but thoroughly well-made Machines, and will last many years with hard working. We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in broken bottles, and also reducing risk of accidents.



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Producing Capacity by Hand-power 600 doz. per day.
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Producing Capacity by Hand-power 350 doz. per day.
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Or without Syrup Pump to Turnover Machine Code Word (*Retailer*) **£33**

Producing Capacity by Hand-power 200 doz. per day.

In use by Leading Chemists in all parts of the United Kingdom.

THE

"NIAGARA" BOTTLE

IS THE

STRONGEST,
CLEAREST,
AND BEST

Ball-stoppered Bottle in the Market.

SAMPLES FREE.

PRICES ON APPLICATION.

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Pure Tin Tops and Best Bohemian Glass Vases. The Cheapest, Strongest, Handsomest, and Best in the World.

PRICE 1/6 EACH.

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ONE PRICE ONLY, and the BEST QUALITY at that.

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NATURAL PALATABLE HUNGARIAN PURGATIVE.

The favourite prescription of the Medical Profession, as more palatable and reliable than any other Water for cases of **Habitual Constipation, Hepatic Congestion, Obesity, Catarrh** of the **Stomach, Atony** of the **Bowels,** and especially for **Women before and after Accouchement.**

Of all Chemists at 1/6 and 2/-.

The Genuine Label has Black lettering with Blue Border on White Ground

Sole Agents—BURROUGHS, WELLCOME & CO., HOLBORN VIADUCT, LONDON; and of INGRAM & ROYLE, and all Wholesale Druggists and Mineral Water Dealers.

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APNEUMATIC

TABLE WATERS

Were first supplied to H.M. the Queen in 1856, and to H.R.H. the Prince of Wales in 1862.

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GINGER ALE,

AND ALL THEIR OTHER WATERS, Are UNRIVALLED for PURITY and QUALITY.

In Ordinary Bottles and Syphons.

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Send for Trade List and Compare Prices.

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PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

SELTZOGENES.

1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed.

Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria. Agents for Victoria, South and West Australia, and Tasmania.

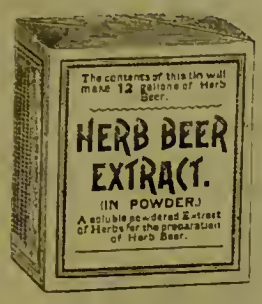
All our Seltzogenes are manufactured on the well-known "Fevre" System and each one is thoroughly tested before leaving the works.

A NOVELTY IN HERB BEER.

HERB BEER EXTRACT.

(IN POWDER.)

A SOLUBLE POWDERED EXTRACT OF HERBS for the production of Herb Beer.



This preparation is guaranteed to be composed of the genuine Extracts of Hops, Dandelion, Horehound, Marshmallow, Sarsaparilla, Gentian, Yarrow, &c., in a state of powder.

It is highly concentrated, and keeps better than the Fluid Extracts.

It is homogenous, and the aromatic properties are equally distributed through the mass, so that each portion contains its true and proper share of the ingredients, a great improvement on the Fluid Extracts, in many of which the insoluble essences, Gingerine, &c., get to the top, and are drawn off for the first brewing.

It is much cheaper than the Fluid extract, as the quantity in a 6*d.* tin is sufficient for 12 gallons of Herb Beer.

Style.—In tins, holding about 1¼ and 2½ oz. of Powder. Each tin is labelled with full directions and enclosed in a wrapper of two colours.

	1¼ oz.	2½ oz.	
Price.—**1** dozen or less	**3/6**	**6/6**	per dozen.
1 „ with name and address...	**4/-**	**7/-**	„
3 „ „ „	**3/6**	**6/6**	„
6 „ „ „	**3/4**	**6/4**	„
12 „ „ „	**3/3**	**6/3**	„

To retail at **6***d.* and **1/-**

Demy 16mo. Circulars for Retail use, with customer's own Name and Address; 2/- per thousand, for not less than 1,000.

SOUTHALL BROS. & BARCLAY, BIRMINGHAM.

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MASON'S EXTRACTS

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WINE ESSENCES.

EXTRACT OF HERBS	LEMONINE
„ „ DANDELION	CIDERINE
„ „ SARSAPARILLA	HOREHOUNDINE
„ „ HOPS	FOAMINE
„ „ GINGER	WINTER EXTRACT
„ GINGER ALE	

Mason's Wine Essences.

GINGER	SARSAPARILLA
RASPBERRY	LEMON SQUASH
COWSLIP	CHERRY
STRAWBERRY	PEPPERMINT
ORANGE	PORT
BLACK CURRANT	SHERRY
RED CURRANT	CLOVES
LEMON	ELDERBERRY
LIME FRUIT	DAMSON
JARGONELLE	RAISIN
QUININE	GOOSEBERRY
PINE APPLE	"WARMINE"

SOLE INVENTORS AND MANUFACTURERS—

NEWBALL & MASON

Manufacturing Chemists,

HYSON GREEN WORKS, NOTTINGHAM.

2d. JESSOP'S 2d.

HERB BEER EXTRACT

AN ABSOLUTELY PURE HERBAL EXTRACT.

MAKES A BRIGHT, SPARKLING, AND REFRESHING DRINK.

In 2-oz. Bottles to Retail at 2d.

Gives the greatest satisfaction wherever introduced.

Packed in Dozen Cartoons.

WHOLESALE PRICE—

18/- per gross. 5 gross, 14/-

10-gross lots Carriage Paid and Package Free.

CASH WITH ORDER OR SATISFACTORY REFERENCE.

R. H. JESSOP & CO.

HALIFAX.

Wholesale Agents—BARCLAY & SONS (Lim.), London. OLDFIELD, PATTINSON & CO., Manchester. GOODALL, BACKHOUSE & CO., Leeds.

"COCA-TONIC-CHAMPAGNE"

(LAURENT-PERRIER).

The only combination of high-class Champagne with Coca Leaf Extract, by actual Champagne Growers. Well matured, free from Acidity, and absolutely without Sugar or added Alcohol.

Prices:—½-Pints, 24/-; Pints, 45/-; Quarts, 84/- per dozen.

Sole Consignees, Hertz & Collingwood, 4 Sussex Place, Leadenhall St., London; and of Ingram & Royle.

CHAMPION'S VINEGAR

COMMANDS A PREFERENCE OVER ALL OTHERS.

WORKS { Corner of Old Street and City Road, } LONDON.

ESTABLISHED OVER 200 YEARS.

NEEDS NO GUARANTEE.

NONE GENUINE WITHOUT THE

REGISTERED TRADE MARK.

TOWER TEA

HIGHEST AWARD, PARIS, 1889.

Analysts by the "LANCET," December 20th, 1890:—

"We have submitted to examination the Teas of the Great Tower Street Tea Company (Limited). They all yield liquors which are generous to the taste, and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the samples."

PRIZE MEDAL, PARIS, 1889.

Where Vacancies exist, Agencies are appointed by

THE GREAT TOWER STREET TEA CO., LIMITED

5 JEWRY STREET, LONDON, E.C.

40% PROFIT!

There is no Proprietary that will give you such a good return as "PEPSALIA"—40% on your outlay, and no "cutting," no "underselling."

A GUARANTEED PROFIT OF 8s. IN THE £.

TRY IT—IT WILL PAY YOU.

Send Postcard for Particulars and Form of Agreement to

G. & G. STERN, 62 Gray's Inn Road, LONDON, W.C.

POTTER'S

The Best in the Market.

HERB BEER

Makes a Splendid Botanic Beer.

IMPROVED FLAVOUR. **EXTRACT**

KEEPS GOOD IN ANY CLIMATE.

Price **3/6** per Dozen, **39/-** per Gross.

Show Cards, Counter Bills, &c., with all orders.

POTTER & CLARKE,

Wholesale and Botanic Druggists,

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DENTISTRY
Stevens, P. A.
DISINFECTANTS
Barclay & Sons, Lim.
Beedzler & Co.
Dussek Bros. & Co.
Elephant Disinfectant Co.
Hebden, W. C.
Government Sanitary Co.
Isal
Jeyes' Sanitary Compounds Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Ness & Co.
Odams' Chemical Co., Lim.
Sanitas Co., Lim.
Seabury & Johnson
Tyrer, T., & Co.
Wandsworth Chemical Works, Lim.
DOG MEDICINES
Spratt's Patent, Lim.
DRUGS
Allen, S., & Sons (Grinders)
Graf, F. | Hopf, R.
Morrison, R., & Co.
Richardson, J., & Co., Lim. (Grinders)
DRUGGISTS' SUN.
Ayrton & Saunders
Barclay & Sons, Lim.
Belden, E. & W.
Chemists' Association, Lim.
Crowden & Garrod
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fawssett, T.
Fordham, W. B., & Sons, Lim.
Gilbertson, H., & Sons
Hockin, Wilson & Co.
Kay Bros., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Quelch, H. C.
Sanger & Sons | Schutze & Co.
Tidman & Son | Toogood, W.
Tunbridge & Wright
Wood, Vincent
Woodward, W. | Wooll, E.
Young, J.
DRYSALTERIES
Browning, J. H., & Co.
DYES, &c.
Crawshaw & Co.

EAU DE COLOGNE
Farina, J. M.
Muhlens, F.
ELECTRICAPPAR.
Darton, F., & Co.
Gent & Co.
EMBROCATION
Day & Sons
Elliman, Sons & Co.
ENEMAS
Barclays, Lim.
Evans, Sons & Co.
Sanger & Son
Wood, Vincent
ENGRAVERS
Caspar & Co., Lim.
Corsan, J. R.
ESSENCES
Boulton, J., & Co. (Lim.)
Bratby & Hinchliffe, Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
De Carle & Son
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Idris & Co., Lim.
Lorimer & Co.
May & Baker, Lim.
Newball & Mason
Rylands, Dan, Lim.
Stevenson & Howell
Tyrer, P. (Anchovies)
Tyrer, T., & Co.
Woolley, Sons & Co.
ESSENTIAL OILS
Allen, S., & Sons
Barrett, A. A.
Boehm, Fredk.
Brummerstaedt & Lüders
Bush, W. J., & Co.
Dodge & Olcott
Evans, Sons & Co.
Hodgkinsons, Treacher & Clarke
Jakson, John, & Co.
Lambert, S., & Co.
May & Baker, Lim.
Poppelreuter, W.
Ransom, Wm., & Sons
Richards & Bert
Rylands, Dan, Lim.
Sosio & Andrioli
Stevenson & Howell
Symes & Co.
Todd, A. M.
Treatt, R. C.
Warrick Bros
Widemann, Broicher & Co.
Wright, Layman & Umney
ETHER
Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney
EUCALYPTUS
Downie B.I.P. Co.
Laughland, Mackay & Baker
EXTRACT MEAT
Armour & Co.
Bovril, Lim.
Brand & Co.
Idris & Co. (Viking Co.)
Liebig Co.
Liquor Carnis Co., Lim.
Mason, G., & Co., Lim.
Wyeth, J., & Brother
EXTRCTS, FLUID
Allen & Hanburys
Allen, G., & Co.
Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd T., Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Richardson, J., & Co., Lim.
Wright, Layman & Umney
EXTRACTS, SOLID
Allen, G., & Co.
Ransom, W., & Son
FEEDG BOTTLES
Burroughs, Wellcome & Co. (Thermo Safe)
Chemists' Association, Lim.
Evans, Sons & Co.
Hearn, Wright & Co.
Hockin, Wilson & Co.
Kilner Bros.
Marriott, E., & Co.
May, Roberts & Co.
Maw, S., Son & Thompson
Surrey Packing Co.
Youldon, E.
FILTERS
Fordham, W. B., & Sons, Lim.
FLY PAPERS
Buchan, D.
Ford, Shapland & Co.
Marshall, E.
Mather, W., Lim.
Slack, W., Exors.
Smith, J. H.
Strong, Christy
Tidman & Sons
Tunbridge & Wright

FOOD (Infants' & Invalid's
Allen & Hanburys
Benger's Food
Bovril, Lim.
Brand & Co.
Chibnall, H. B.
Evans, Sons & Co.
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Liebig Co. | Lorimer & Co.
Mason, G., & Co. Lim.
Mellin's Food | Nestlé, H.
Ridge, Dr. | Tyrer, P.
Viking Food Co.
Wyeth, J., & Bro.
FULLERS' EARTH
Fullers Mining Co., Lim.
GELATINES
Astley Cooper & Co.
GINGER ALE
Mills, R. M., & Co.
Ross & Sons (Lim.)
GLYCERINE
Blyton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Price's Candle Co., Lim.
GOLD-BEATERS' SKIN
Gates, T. & T.
GOUT & RHEUMATIC CURE
Bromley, C.
Hopkinson & Co.
GRANULAR PREP.
Bishop, A., & Sons
Blyton, Astley & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.
Tyrer, T., & Co.
Wright, Layman & Umney
GUM
Fink & Co. (Arabic, &c.)
HAIR PREP.
Bates, F. W.
Cassie & Co.
Chesebrough Co.
Edwards & Co.
Truefitt, H. P., Lim.
HERB BEER EXTS
Jessop, R. H., & Co.
Newball & Mason
Potter & Clarke
Schmidt, Karl
Smith, J. H.
Southall Bros. & Barclay
HOMŒOPATHIC
Epps, James, & Co., Lim.
Keene & Aswell
Leath & Ross
Watson & Wates
HYPOPHOSPHITES
Duncan Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Lorimer & Co. | Symes & Co.
Tyrer, T., & Co.
INHALERS
Burroughs, Wellcome & Co
Hockin, Wilson & Co.
Toogood, W.
INK
Bewley & Draper, Lim.
INSECTICIDES
Barclay & Sons, Lim.
Lorimer & Co.
Sandford & Sons
Steiner & Co.
Stevenson & Howell
IRON, REDUCED
Berger, Kahler & Co.
KETCHUP
Tyrer, P.
LARD
Ewen, J., & Sons
LEMON SQUASH
Kemp & Son
LIME JUICE
Evans, Sons & Co.
Lorimer & Co.
LINT
Lindner & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons
LIQUORICE
Dennis Di Luggo & Co.
"Solazzi"
LIQUORS
Cooper & Co.
Fletcher, Fletcher & Stevenson
Oppenheimer, Son & Co., Lim.
LOZENGES
Allen & Hanburys
Blyton, Astley & Co.
Gibson, R., & Sons (Manfrs.)
Guest, T., & Co.
Hill & Son | Lorimer & Co.
Raimes & Co.
Richardson, J., & Co., Lim.
Warrick Bros.
MACHINERY
Bennett, Sons & Shears (Lim.)
Burroughs, Wellcome & Co.
Carter, T. H.
Gardner, W.
Hockin, Wilson & Co.
Martin Perls & Co.
Pindar, J. W.
Werner & Pfleiderer (Kneading and Sifting)

MAGNESIA
Bleasdale, W., & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Lorimer & Co.
Washington Chemical Co.
MALT EXTRCT, &c.
Allen & Hanburys
Anderson & Co.
Burroughs, Wellcome & Co. (Kepler's)
Hearon, Squire & Francis
Leconte, Eugene
Lofoden Cod Liver Oil Co.
Lorimer & Co.
Moss, J., & Co.
Oppenheimer, Sons & Co., Lim.
Raimes & Co.
Raimes, Clark & Co.
Richardson, John, & Co. (Leicester), Lim.
Robinson & Co.
MARKING INKS
Bond, John (Crystal Palace) (Ink and Pencils)
MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)
Richardson, J., & Co., Lim.
MENTHOL
Burroughs, Wellcome & Co.
Christy, T., & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Maw, S., Son & Thompson
Shirley Bros. | Tyrer, P.
MERCURIALS
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.
METH. SPIRTS, &c.
Boord & Son | Burrough, J.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.
Warren A. & J.
METHYLENE
Robbins, J., & Co.
MICROSCOPES
Darton, F., & Co.
MILK
Nestlé, H. (Condensed)
MORPHIA
Macfarlan, J. F., & Co.
Smith, Bertie, & Co.
Smith, T. & H., & Co.
OILS, PAINTS, VARNISHES, &c.
Browning, J. H., & Co.
Fox, W., & Sons
Matthews, H., & Co.
Pinchin, Johnson & Co.
OINTMNT BASES
Burgess, E., jun.
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Lloyd, T. Howard, & Co.
Richardson, J., & Co. (Leicester), Lim.
OPHTHALMIC
Pomies, E. (Powders)
OPIUM
Hopf, R.
OPTICIANS
Botwright & Grey
Darton, F., & Co.
OTTO OF ROSE
Warrick Bros.
OXIDE OF ZINC
Huhbuck, T., & Son, Lim.
PAT. MEDCNS, &c.
Anglo-American Drug Co. (Lim.) [Preserv.]
Atkinson & Barker (Infant
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Bromley, C. (Gout and Rheu.)
Chemists' Association, Lim.
Clarke's Blood Mixture
Edwards & Son
Evans, Lescher & Webb
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Co.
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
Mackenzie, Dr. (Catarrh Cure)
May, Roberts & Co.
Newbery, F., & Sons
Popular Remedies Mfg. Co.
Roberts & Co. (Foreign)
Rooke, Dr., Lim.
Sutton, W., & Co.
Warner, H. H., & Co., Lim.
Wilson, A. (Bunter's Nervine)
PEPPERMINT OIL
Bush, W. J., & Co.
Ransom, W., & Son
Stevenson & Howell
PEPSIN, &c.
Armour & Co.
Burroughs, Wellcome & Co.
Chassaing & Co.
Fletcher, Fletcher & Stevenson
Newbery, F., & Sons (Inglurin)
Stearns, F., & Co.
Stern, G. & G.
Warner & Co. (Inglurin)

PERFUMERY, FANCY SOAPS
Barclay & Sons, Lim.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F
Blyton, Astley & Co.
Brummerstaedt & Lüders
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Bush, W. & J., & Co.
Chemists' Association, Lim.
Chesebrough Co.
Evans, Sons & Co.
Ewen, J., & Sons
Farina, J. M. | Greensill & Son
Hovenden & Sons
Lanoline | Mulhens, F.
Newbery, F., & Sons (Berdoes
Pears', A. & F., Lim.
Potter & Clarke
Price's Patent Candle Co.
Sosio & Andrioli
Tidman & Son | Treatt, R. C.
Truefitt, H. P., Lim.
Warrick Brothers
West, T. (Okell's Mona)
Woolley, Sons & Co. (Powder)
Wright Layman & Umney
PEROX. OF HYDR.
May & Baker, Lim.
Robbins & Co.
Tyrer, T., & Co
PETROLEUM
Allen & Hanburys
Dee Oil Co., Lim.
Snowdon, Sons & Co.
PHARM. PREPS.
Allen & Hanburys
Armour & Co.
Baiss Bros.
Barron, Harveys & Co.
Bieber, J. D. | Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Bryce & Rumpff
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Chassaing & Co.
Duncan, Flockhart & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Giles, Schacht & Co.
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Sons
Hopkinson & Co.
Howards & Sons
Jeyes' Sanitary Compounds Co.
Lambert Pharmacal Co
Macfarlan, J. F., & Co.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim.
Parke, Davis & Co
Potter & Clarke
Radlauers
Richardson, John, & Co. (Leicester), Lim.
Roberts & Co.
Smith, T. & H., & Co.
Squire & Sons
Sutton, W. & Co.
Symes & Co. | Tyrer, T., & Co.
Warner, H. H., & Co., Lim.
White, Alfred, & Sons
Woolley, Sons & Co.
Wyeth, Jno., & Bro.
Zimmermann, A. & M
PHOTOGRAPHIC
American Camera Co.
Barclay & Sons, Lim.
Blackfriars Photographic Co.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcome & Co.
Christy, T., & Co.
Darton, F., & Co. [Lim.
Eastman Photo Materials Co.,
Fordham, W. B., & Sons, Lim.
Houghton, G., & Son
Howards & Sons (Chemicals)
Kent, G. B., & Sons
Thornton-Pickard Co.
Tyrer, T., & Co.
White, Alfred, & Sons
Zimmerman & Co.
PILL MACHINES
Pindar, J. W.
Toogood, W. (Coater)
Werner & Pfleiderer
PILLS (Coated, &c.)
Allen & Hanburys
Anderston Apothecaries' Hall
Beecham, Thomas
Blyton, Astley & Co.
Bromley, C. (Gout & Rheu.)
Burgess, E., jun.
Carter's Little Liver Pills
Cox, Arthur H., & Co. (tastless)
Dr. Williams Medicine Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Hill, A. S., & Son
Holloway's
Lloyd, T. Howard, & Co.
Lorimer & Co.
McKesson & Robbins
Newbery, F., & Sons
Nortons, Lim. (Camomile)
Parke, Davis & Co.
Potter & Sacker
Richardson, J., & Co., Lim.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyeth J., & Bro.

PLASTERS
De St. Dalmas, A.
Evans, Sons & Co.
Johnson & Johnson, Lim
Leslies, Lim.
Mather, W., Lim.
Seabury & Johnson

POLISHING
Bradley & Bourdas (Albatum)
Chancellor & Co.
Fordham, W. B., & Sons, Lim.
Lubezynski, H. & A.

PORCELAIN GDS
Toogood E. (Pots. regist.)

POULTRY FOOD
Spratt's Patent, Lim.

PRICE LISTS
Edwards & Son
Evans, Sons & Co.
Fallowfield, J.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Sanger & Sons

PRINTING
Bowers Bros.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Silverlock, H.
Taylor Bros.
Townsend, J.

QUININE SALTS
Boehringer, C. F., & Sohns
Howards & Sons
Zimmermann, A. & M.

RENNET
Duncan, Flockhart & Co.

RUBBER GOODS
Maw, S., Son & Thompson
Victoria Rubber Co.
Wood, Vincent

SACCHARIN
Allen & Hanburys
Burroughs, Wellcome & Co.

SALICIN
Macfarlan & Co.
Smith T. & H., & Co.

SALICYLIC ACID
Burgoyne, Burbidges & Co.
Zimmermann, A. & M.

SARSAPARILLA
Wilkinson's

SAUCES, PICKLES
Goodall, Backhouse & Co.
Mason, G., & Co., Lim.
Tyrer, P.

SCIENTIFIC INSTRUMENTS
Darton & Co.

SEEDS
Potter & Clarke
Surrey Packing Co.

SCHOOLS, &c.
Central School of Chemistry
City School of Chemistry and Pharmacy, Lim.
Liverpool School of Pharmacy
London Homœopathic and Medical School
Mancheeter Col. of Pharmacy
Metropolitan Coll. of Pharmcy
Northern School of Pharmacy
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
The School of Pharmacy
Westminster College

SEIDLITZ PWDRS
Blyton, Aetley & Co.
May Roberts & Co.
Hockin, Wilson & Co.
Hora & Co.

SELTZOGENES
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Gerant, E., & Co.
May, Roberts & Co.

SHAVING
Hovenden & Sons (Euxesis)
Lloyd, Mrs. A. S. (Euxesis)

SHEEP DIP
Fletcher, Bros. & Co.
Jeyes' Sanitary Compounds Co.
Ness & Co.
Odams' Chemical Co., Lim.
Quibell Bros. [ratus]
Stephenson, G., & Sons (Appa-
Tomlinson & Hayward [Lim.
Wandsworth Chemical Works,

SHOP FITTERS
Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co. Howlett, S.
Josephs, P. Natall & Co.
Trehic, G., & Son

SOAP
Ayrton & Saunders
Barclay & Sons, Lim.
Blondeau et Cie. (Vinolia)
Bronnley, H., & Co.
Cook, E., & Co.
Evans, Sons & Co.
Fordham, W. B., & Sons, Lim.
Gibbs, D. & W.
Jeyes' Sanitary Compounds Co
Lorimer & Co.
Muhlens, F.
Peare, A. & F., Lim.
Tidman & Son
Wright, Layman & Umney

SODIUM PRXIDE.
Burton, W., & Sons

SPECTACLES
Botwright & Grey
Darton, F., & Co.

STARCH
Chancellor & Co. (Mack's
Critchley (Gloss) [Double)

SPONGES
Creeewell Bros. & Schmitz
Evans, Sons & Co.
Peterson, M., & Co.

STAMPS (RUBBER)
Hickleson, J

STOPPERS
Austin & Co. (Sprinklers)
Barnett & Foster Mellin, C.
Orchard, E. (Poison)
Stipendum Stopper Co., Lim.

STOVES
Clark, S., & Co., Lim.

SUGAR
Blyton, Aetley & Co.
Fletcher, Fletcher & Stevenson
Gibson, R., & Sons

SUGAR OF MILK
Boehm, Fredk.

SULFONAL
Burroughs, Wellcome & Co
May & Baker, Lim.

SURGICAL
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Cocking, J. T.
Eschmann Bros. & Walsh
Haywood, J. H.
Krohne & Seesemann
Lindner & Co.
Liverpool Patent Lint Co.
Macfarlan, J. F., & Co.
Mather, W. Lim.
Maw, S., Son & Thompson
Powell & Barstow
Quelch, H. C.
Richardson, John, & Co. Lim.
Robinson & Sons
Schnitze, F., & Co.
Statham, H., & Co.
Victoria Rubber Co.
Wood, Vincent

SYPHONS
Barnett & Foster
Bratby & Hinchliffe, Lim.
Fordham, W. B., & Sons, Lim.
Idrie & Co., Lim.
Kilner Bros. Mellin, C.
Rylands, Dan, Lim.

SYRUPS
Blyton, Aetley & Co.
Cooper & Co.
Fletcher, Fletcher & Stevenson
Idrie & Co., Lim. [(Liquors)

TABLETS
Blyton, Aetley & Co. (Sulphur)
Corsan, J. R. (Advertising)
Richardson, J., & Co., Lim.
(Compressed)

TEA
Burroughs, Wellcome & Co.
(Tabloids)
Gt. Tower St. Tea Co.
Horniman, W. H. & F. J., & Co.,
Pearce & Meeking [Lim.

TEETHING PADS
Marriott, E., & Co.

THERMOMETERS
Bailey, W. H., & Son
Barclay & Sons, Lim.
Darton, F., & Co.

TINCTURES
Bleber, J. D.
Evans, Sons & Co.
Hewlett, C. J., & Son
Parke, Davis & Co.

TOBACCO & CIGRS
Singleton & Cole (Lim.)

TOILET
Aspinall, E.
Allen & Hanburys (Chrisma)
Bates, F. W.
British Paper Co.
Burroughs, Wellcome & Co.
(Lanolins)
Dee Oil Co., Lim.
Hovenden & Sons
Quelch, H. C.
Truefitt, H. P., Lim.

TOOTH PASTE
Beecham, T.
Jewsbury & Brown
Sutton, O., & Co. (Block)
Wilson, A. (Bunter's)
Woode, M. (Areca)

TRADE MARKS
Browne, T. B.
Trade Mark Society, Lim.

TRUSSES
Bailey, W. H., & Son
Evans, Sons & Co.
Haywood, J. H. | Wood, V.

URETHANE
Howards & Sons
Vaccine Association (Lymph)

VACCINATION
Vaccine Association (Lymph)

VALUERS & TRNSFR AGNTS
Andrew & Co.
Berdoe & Co. | Brett, F. J.
Crocker, G. B., & Co.
Orridge & Co.
Tomlinson, Thos., & Son

VASELINE
Chesebrough Co.

VINEGAR
Champion & Co., Lim.
Pott, R. & N.

VETERINARY
Bird & Storey | Day & Son
Day, Son & Hewitt
Fillman, Sons & Co.
James, W. H. (Blisters)
Jeyes' Sanitary Compounds Co
Lloyd, T. Howard, & Co.
Rookledge, F. E.
Spratt's (Dogs)
Walker, Troke & Co.

VINOLIA (Superf'tt'd)
Blondeau & Cie.

WEED KILLERS
Acme Chemical Co., Lim.
Tomlinson & Hayward

WHOLSL & EXPRT DRUGGISTS
Allen & Hanburys
Allen, S., & Sons
Bales Bros.
Barron, Harveys & Co.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Fassett & Johnson
Ferrie & Co.
Fox, W., & Sons | Graf, F.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Son
Hodgkinson, Preetons & King
Hodgkinsons, Treacher &
Kemp, Wm., & Son [Clarke
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Potter & Clarke
Proseer, Taylor & Co.
Raimes & Co.
Raimes, Clark & Co.
Richardson, J., & Co., Lim
Symes & Co.
Walkers, Troke & Co.
Warren, A. & J.
Willows, Francis & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney

WINES, SPIRITS
Armbrecht, Nelson & Co. (Cosa)
Burrough, J.
Coleman & Co., Lim.
Durrant & Co.
French Hygienic Soey. (Cosa)
Glendenning, W., & Sons
Goodall, Backhouse & Co.
Hirst, Brooke & Hirst, Lim.
Millar, A., & Co. (Orange)
Robinson, B.
Smith, S., & Co. (Orange)

EXCEPTIONAL VALUE.

ORANGE AND QUININE WINE, B.P.

In 26-oz. Bottles, **10/-** per doz.

Prepared with HOWARDS' Sulphate of Quinine.

The Chemist and Druggist says:—"Messrs. STEPHEN SMITH & Co., of Bow, E., are putting on the market an orange-quinine wine in wine-quart bottles. It is made according to the British Pharmacopœia, and they have sent us a sample, which we have examined critically. The orange-wine from which the preparation is made is of a pale-brown colour, good orange odour, and contains 7 per cent. of soluble matter other than quinine. This is mainly sugar. Its alcoholic strength we find to be equal to 25 per cent. proof spirit, or 11·8 per cent. by weight of alcohol, so that it is of the higher standard recognised by the Pharmacopœia. The alkaloidal value of the wine is also satisfactory. Three ounces of it yielded 2·3 grains of ether-soluble alkaloid, equal to 2·7 grains of sulphate of quinine, and allowing for experimental loss and the usual cinchonidine content (not extractable by ether) it will be seen that the wine has obtained not only the pharmacopœial *quantum*, but that it has lost little of it by tannic precipitation."

HIGH CLASS SHERRY, B.P., for Pharmaceutical purposes and Drinking, **6/6** per gall., **16/-** per doz.
EXTRA PALIDO SHERRY, delicate Dry Wine, **7/3** per gall., **18/-** per doz.
ORANGE WINE, GINGER WINE, S.V.R. B.P., S.V.R. for Perfumery.
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Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

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KEPLER SOLUTION OF COD LIVER OIL IN EXTRACT OF MALT.

This preparation is, according to the various reports of the Medical Journals, the best of its kind. Many patients who are unable to take plain cod liver oil can take the Kepler Solution with facility; it acts as a tissue-forming and force-producing food, giving decidedly advantageous results. Physicians now recognise that it is not altogether the amount of Cod Liver Oil that can be gulped or swallowed down, but the amount of oil absorbed, that affords the benefit to the patient. The Solution is unique for its excellence and purity; it contains no so-called correctives, which invariably disgust and nauseate the patient, and disorganise the digestive functions. The Kepler Solution of Cod Liver Oil must not be confounded with any similar preparation, for no other in the market contains so large an amount of nutrient material. It yields the chemist a good margin of profit, and it pays him to interest himself in its supply.

Supplied to the trade in ¾-lb. and 1½-lb. bottles, at 20/- and 36/- per dozen; also in ½-kilo. and 1-kilo. tins for export only.

KEPLER EXTRACT OF MALT.

This is a most nutritious, efficient, and pleasant preparation, extracted from pure barley by first moistening the cereal, exposing it to a moderate temperature, and subsequently drying, screening, &c. Kepler Malt Extract contains all the nutrient elements of the barley (phosphates, albuminoids, &c.), in conjunction with the diastase which is evolved in the process above referred to, and which greatly aids digestion, as it converts starch (as in potatoes, rice, &c.) into maltose and dextrines. The diastase is a most important principle of the malt, being of special service in errors of nutrition accompanied by digestive derangements.

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In dietetics for the invalid, the Kepler Essence of Malt has already won its way to an enviable position, and has distinctly shown its superiority over all so-called nourishing stouts and ales as a food beverage. Its superior diastasic property, its palatable character, and its freedom from intoxicating qualities raise it at once far above the ordinary level of the very best and most carefully-prepared fermented malt liquors. We are assured by competent judges who have tried it in their clinics that two fluid ounces of the Kepler Malt Essence are equal in therapeutic value to a pint of the best stout or ale. This is a most important fact, to be kept well in mind when recommending or prescribing suitable diet for the dyspeptic, the ill-nourished, the sick, or the convalescent. The Kepler Extract of Malt makes a pleasant beverage when mixed with aerated water, or milk and water, &c.

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A solution of the finest castor oil in Kepler Malt Extract represents 50 per cent. of castor oil. The nauseous and very objectionable taste of the castor oil is well disguised, and the laxative properties of the oil are enhanced in this combination, to which the most fastidious patients are not found to object.

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Pepsin is supplied in the form of scales for making solutions and general manufacturing purposes, in powder for dispensing, and in "Tabloids" for easy and convenient administration. Fairchild's Pepsin is no more expensive than most of the common pepsins, though it possesses many times the strength and activity.

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A cardiac tonic indicated in functional disorders of the heart, especially in palpitation arising from reflex irritation in dyspepsia and in the milder forms of angina pectoris.

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Free from the nauseating taste of the corresponding Liquor of the Pharmacopœia. It remains bright when diluted with water in any proportion.

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Identical in strength with the official liquid extract, from which it differs by mixing bright with water, wine, or syrup.

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Solid and Liquid. Keeps perfectly, and possesses the characteristic flavour of malt.

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Supplied in bulk, and in tins with plain labels.

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Contains 1¼ per cent. of Emetine, and gives with detannated Sherry a Vinum Ipecac. that is *bright, stable*, and uniformly *active*.

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A strong solution of peptic principles of definite strength; a stable and digestive fluid of great activity.

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A biliary stimulant and digestive agent of pronounced efficacy.

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